HCD-D390/D790/G5500/ XB33/XB44/XB50/XB60

SERVICE MANUAL

US Model
HCD-D390/D790/G5500
Canadian Model
HCD-390/D790
AEP Model
UK Model
HCD-XB50/XB60
E Model
Australian Model
HCD-XB33/XB44



Photo: HCD-XB44

- HCD-D390/D790/G5500/XB33/XB44/XB50/XB60 is the tuner, deck, CD and amplifier section in LBT-D390/D790/G5500/XB33/XB44/XB50/XB60.

*Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol ◘◘ are trademarks of the Dolby Laboratories Licensing Corporation.

CD Section	Model Name Using Similar Mechanism	HCD-D290/G3300/XB3
	CD Mechanism Type	CDM37L-5BD29AL
	Base Unit Name	BU-5BD29AL
	Optical Pick-up Name	KSS-213D/Q-NP
Tape Deck Section	Model Name Using Similar Mechanism	HCD-D290/G3300/XB3
	Tape Transport Mechanism Type	TCM-220WR2

SPECIFICATIONS

For the U.S. model

AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 8 ohm loads, both channels driven, from 70-20,000 Hz; rated 100 watts per channel minimum RMS power, with no more than 0.9 % total harmonic distortion from 250 milliwatts to rated output.

Amplifier section
(HCD-D390/D790/G5500)
Continuous RMS power output:
120 + 120 watts (8 ohms at 1 kHz, 10% THD)
Total harmonics distortionm:
Less than 0.07% (8 ohms at 1 kHz, 50 W)
(HCD-XB50)
DIN power output (Rated):80 + 80 watts (8 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference):
100 + 100 watts (8 ohms at 1 kHz, 10% THD)
Music power output (Reference):
170 + 170 watts (8 ohms at 1 kHz, 10% THD)
(HCD-XB60)
DIN power output (Rated):
100 + 100 watts (8 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference):
120 + 120 watts (8 ohms at 1 kHz, 10% THD)
Music power output (Reference):
210 + 210 watts (8 ohms at 1 kHz, 10% THD)

(HCD-XB33)
The following measured at AC 120/240 V, 50 Hz
DIN power output (Rated):
100 + 100 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference):
120 + 120 watts
(6 ohms at 1 kHz, 10% THD)
Peak music power potput (Reference):
1,500 watts
(HCD-XB44)
The following measured at AC 120/240 V, 50 Hz
DIN power output (Rated):
120 + 120 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference):
140 + 140 watts
(6 ohms at 1 kHz, 10% THD)
Peak music power output (Reference):
2,000 watts

— Continued on next page —

COMPACT DISC DECK RECEIVER

MICROFILM

SONY®

Inputs

PHONO IN (phono jacks): sensitivity 3 mV, impedance 47 kilohms
MIX MIC (phone jack): sensitivity 1 mV, impedance 10 kilohms
(HCD-D390/D790/G5500)
VIDEO (AUDIO) IN (phono jacks): sensitivity 250 mV, impedance 47 kilohms
(HCD-XB33/XB44/XB50/XB60)
VIDEO/MD (AUDIO) IN (phono jacks): sensitivity 250 mV, impedance 47 kilohms

Outputs

PHONES (stereo phone jack): accepts headphones of 8 ohms or more
(HCD-XB33/XB44/XB50/XB60)
VIDEO/MD (AUDIO) OUT (phono jacks): voltage 250 mV, impedance 1 kilohm
SPEAKER:
(HCD-D390/D790/G5500/XB50/XB60) accepts impedance of 8 to 16 ohms
(HCD-XB33/XB44) impedance of 6 to 16 ohms
SURROUND SPEAKER:
(HCD-D790/XB33/XB50/XB60 only) accepts impedance of 16 ohms

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser (λ = 780nm). Emission duration: continuous
Laser output	Max. 44.6µW* *This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Wavelength	780 – 790 nm
Frequency response	2 Hz – 20 kHz (±0.5 dB)
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB

(HCD-XB33/XB44/XB50/XB60)
CD DIGITAL OUT
(square optical connector jack, rear panel)

Wave length:	600 nm
Output level:	– 18 dBm

Tape player section

Recording system: 4-track 2-channel stereo
Frequency response (DOLBY NR OFF)
60 – 13,000 Hz (±3 dB), using a Sony TYPE I cassette
60 – 14,000 Hz (±3 dB), using a Sony TYPE II cassette

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range
(2 band model)

North American model::	87.5 - 108.0 MHz (100 kHz step)
Other models:	87.5 - 108.0 MHz (50 kHz step)
(3 band model)	87.5 -108.0 MHz (50 kHz step)
(4 band model)	87.5 -108.0 MHz (50 kHz step) 65.0 - 74.0 MHz (10 kHz step) OIRT
UKV:	65.0 - 74.0 MHz (10 kHz step) POLAR STEREO
Antenna	FM wire antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range
(2 band model)

North American model:	530 – 1,710 KHz (with the tuning interval set at 10 kHz) 531 – 1,710 KHz (with the tuning interval set at 9 kHz)
Other models:	531 – 1,602 kHz (with the tuning interval set at 9 kHz) 530 – 1,710 KHz (with the tuning interval set at 10 kHz)

(3 band and 4 band models):

MW:	531 – 1,602 kHz (with the tuning interval set at 9 kHz)
LW:	153 – 279 kHz (with the tuning interval set at 3 kHz)
Antenna	AM loop antenna, External antenna terminals
Intermediate frequency	450 kHz

General

Power requirements

North American model:	120 V AC, 60 Hz
European model:	230 V AC, 50/60 Hz
Mexican model:	120 V AC, 50/60 Hz
Australian and South African models:	220 – 240 V AC, 50/60 Hz
Thailand model::	220 – 240 V AC, 50/60 Hz
Other models:	110 – 120 V or 220 – 240 V AC, 50/60 Hz Adjustable with voltage selector

Power consumption

(HCD-D390/G5500):	170 watts
(HCD-D790):	198 watts
(HCD-XB50):	190 watts
(HCD-XB60):	230 watts
(HCD-XB33):	240 watts
(HCD-XB44):	250 watts

Dimensions (w/h/d): Approx. 355 x 425 x 435 mm (14 x 16 3/4 x 17 1/4 in) incl. projecting parts and controls

Mass

(HCD-D390/G5500):	Approx. 12.5 kg (27 lb 9 oz.)
(HCD-D790/XB50/XB60):	Approx. 13.0 kg (28 lb 11 oz.)
(HCD-XB33/XB44):	Approx. 14.0 kg (30 lb 14 oz.)

Supplied accessories:
AM loop antenna (1)
Remote RM-SD70S (1)
Size AA (R6) batteries (2)
FM wire antenna (1)
Speaker cords* (2)

* except for HCD-D390/G5500/XB33/XB50

Design and specifications are subject to change without notice.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

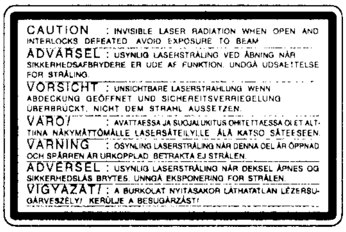
- Keep the temperature of soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

The following caution label is located inside the unit.



SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

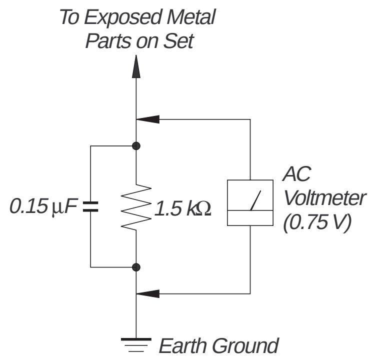


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

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SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

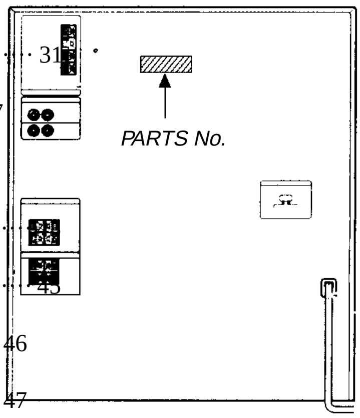
The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

MODEL IDENTIFICATION

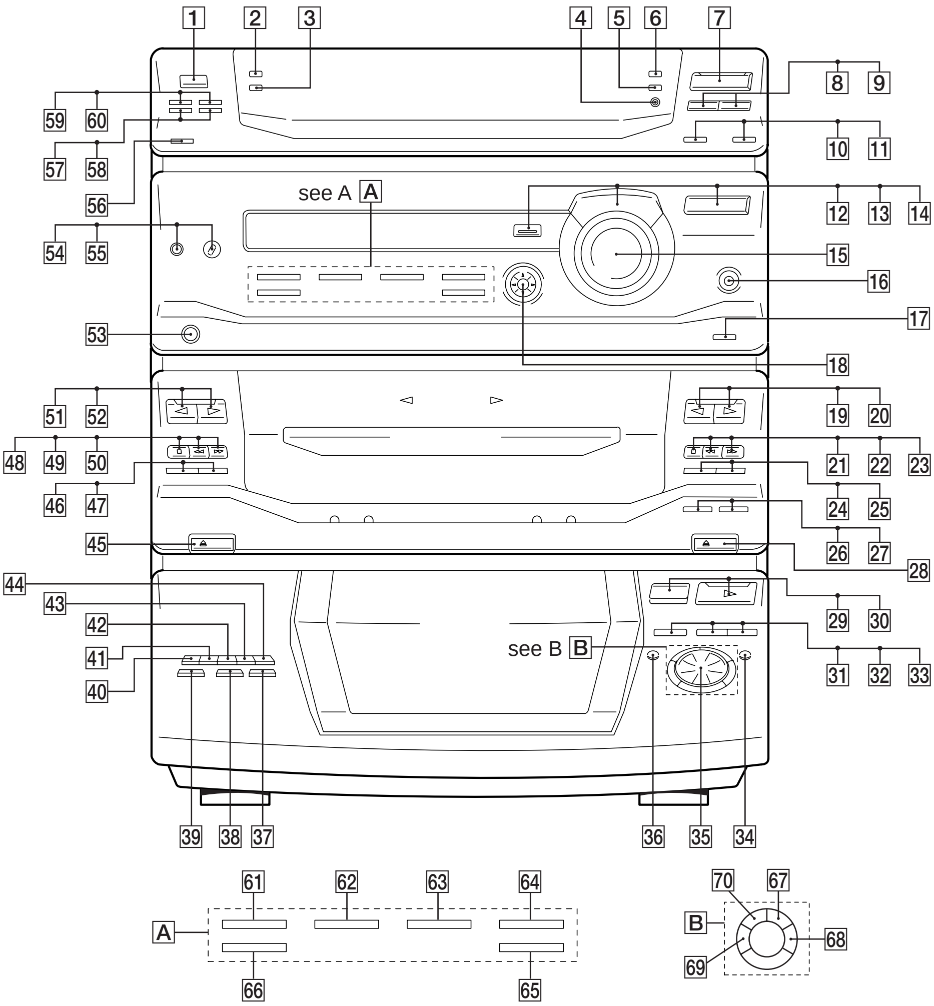
– BACK PANEL –



MODEL	PARTS No.
XB33:E,Argentine models	4-996-410-0☐
XB33:Mexican model	4-996-410-2☐
XB33:Australian model	4-996-410-3☐
XB33:South African model	4-996-410-4☐
D390:US model	4-996-411-0☐
D390:Canadian model	4-996-411-1☐
XB50:AEP,UK models	4-996-411-2☐
XB50:East European,CIS models	4-996-411-3☐
G5500	4-996-411-4☐
XB44:E,Argentine models	4-996-412-0☐
XB44:Mexican model	4-996-412-2☐
XB44:Australian model	4-996-412-3☐
XB44:South African model	4-996-412-4☐
D790:US model	4-996-419-0☐
D790:Canadian model	4-996-419-1☐
XB60:AEP,UK models	4-996-419-2☐
XB60:East European,CIS models	4-996-419-3☐

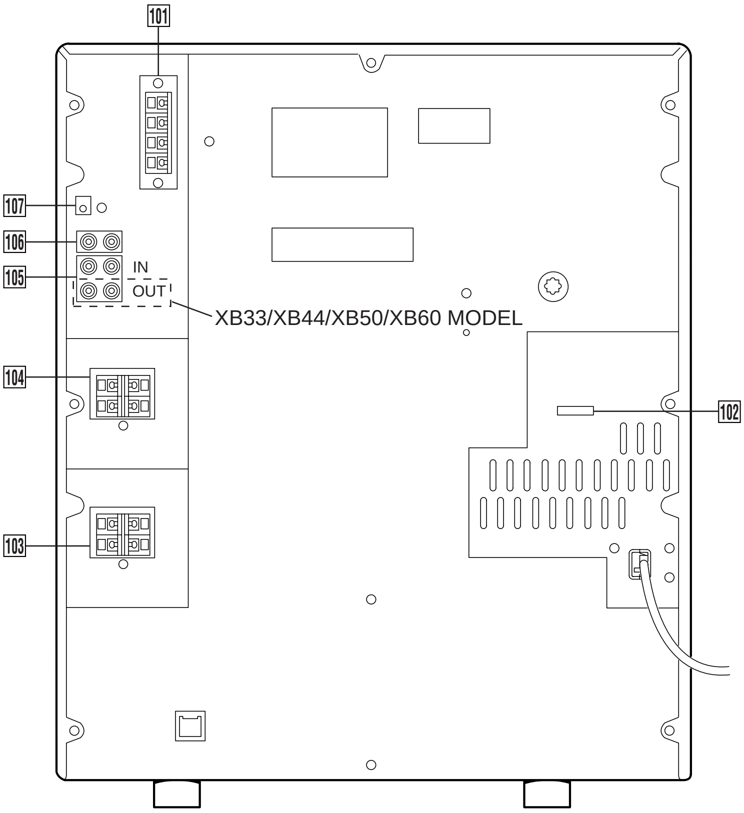
SECTION 1
GENERAL

– FRONT PANEL –



1 POWER button
2 DISPLAY/DEMO button
3 SPECTRUM ANALYZER button
4 ENTER/NEXT button
5 TUNER MEMORY button
6 TUNING MODE button
7 TUNER/BAND button
8 TUNING – button
9 TUNING + button
10 PTY button (AEP, UK model)
11 STEREO/MONO button
12 EFFECT button
13 GROOVE button
14 FUNCTION button
15 VOLUME knob
16 SUPER WOOFER button
17 SUPER W MODE (D790/XB44/XB60 model)
18 GEQ button
19 DECK B ◁ (play) button
20 DECK B ▷ (play) button
21 DECK B ■ (stop) button
22 DECK B ◀◀ (backward) button
23 DECK B ▶▶ (forward) button
24 DECK B ❚❚ (pause) button
25 DECK B ● REC button
26 H SPEED DUB button
27 CD SYNC button
28 DECK B ⏏ EJECT button
29 CD ⏏ OPEN button
30 CD ▷ (play) button
31 DISK SKIP button
32 CD ❚❚ (pause) button
33 CD ■ (stop) button
34 CD ▶▶ (forward) button
35 I◁◁ AMS ▷▷I knob
36 CD ◀◀ (backward) button
37 FLASH button
38 LOOP button
39 NON-STOP button
40 DISC 1 button
41 DISC 2 button
42 DISC 3 button
43 DISC 4 button
44 DISC 5 button
45 DECK A ⏏ EJECT button
46 DIRECTION button
47 DOLBY NR button
48 DECK A ■ (stop) button
49 DECK A ◀◀ (backward) button
50 DECK A ▶▶ (forward) button
51 DECK A ◁ (play) button
52 DECK A ▷ (play) button
53 PHONES jack
54 MIC jack
55 MIC LEVEL knob
56 SLEEP button
57 DAILY 1 button
58 DAILY 2 button
59 ⌚ / CLOCK SET button
60 REC button
61 WAVE button
62 SURROUND button
63 P FILE MEMORY button
64 GEQ CONTROL button
65 ENTER button
66 KARAOKE PON/MPX button
67 PLAY MODE button
68 REPEAT button
69 EDIT button
70 1/ALL DISCS button

– BACK PANEL –



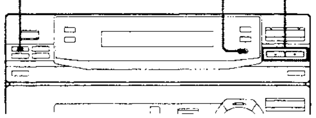
101 ANTENNA terminal
102 VOLTAGE SELECTOR switch (E, AR model)
103 SPEAKER terminal
104 SURROUND SPEAKER terminal (D790/XB33/XB50/XB60 model)
105 VIDEO/MD (AUDIO) jack
106 PHONO jack
107 CD DIGITAL OUT connector (XB33/XB44/XB50/XB60 model)

This section is extracted from instruction manual.

Step 2: Setting the time

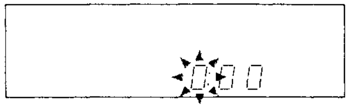
You must set the time before using the timer functions. The clock is on a 24- hour system for the European and Brazilian models, and a 12-hour system for other models.

The 24-hour system model is used for illustration purpose.

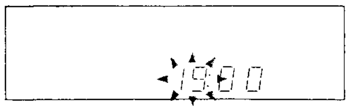


LBT-D390/D790/G5500/XB33/XB33K/XB44/XB44K/XB50/XB60 only

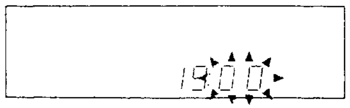
1 Press ⊕/CLOCK SET.
The hour indication flashes.



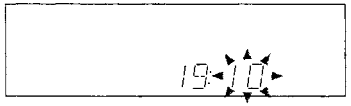
2 Press TUNING +/– to set the hour.



3 Press ENTER/NEXT.
The minutes indication flashes.



4 Press TUNING +/– to set the minutes.



5 Press ENTER/NEXT.
The clock starts.

LBT-XB66/XB66K/XB660 only

1 Press ⊕/CLOCK SET.
The hour indication flashes.



2 Press TUNING +/– to set the hour.



3 Press ENTER/NEXT.
The minutes indication flashes.



4 Press TUNING +/– to set the minutes.



5 Press ENTER/NEXT.
The clock starts.

Tip

If you make a mistake, start over from step 1.

Step 3: Presetting radio stations

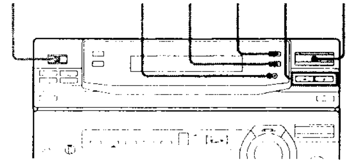
You can preset the following number of stations:

— 2 band model: 20 for FM and 10 for AM

— 3 band model: 20 for FM, 10 for MW, and 10 for LW

— 4 band model: 20 for FM, 10 for MW, 10 for LW, and 5 for UKV

The bands you can select depend on the kind of tuner built into your system. Confirm the bands by pressing TUNER/BAND repeatedly.



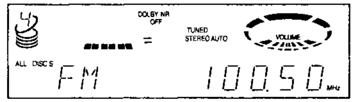
1 Press TUNER/BAND repeatedly until the band you want appears in the display.
Each time you press this button, the band changes as follows:
2 band model:
FM ←→ AM
3 band model:
FM → MW → LW
4 band model:
FM → MW → LW → UKV*

* When you select this band, "STEREO Plus" appears in the display.

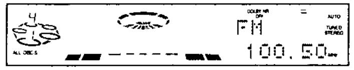
2 Press TUNING MODE repeatedly until "AUTO" appears in the display.

3 Press TUNING +/–.
The frequency indication changes and scanning stops when the system tunes in a station. "TUNED" and "STEREO" (for a stereo program) appear.

LBT-D390/D790/G5500/XB33/XB33K/XB44/XB44K/XB50/XB60

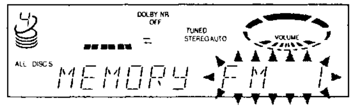


LBT-XB66/XB66K/XB660

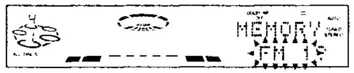


4 Press TUNER MEMORY.
A preset number flashes in the display.

LBT-D390/D790/G5500/XB33/XB33K/XB44/XB44K/XB50/XB60

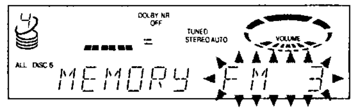


LBT-XB66/XB66K/XB660

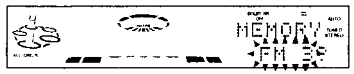


5 Press TUNING +/– to select the preset number you want.

LBT-D390/D790/G5500/XB33/XB33K/XB44/XB44K/XB50/XB60



LBT-XB66/XB66K/XB660



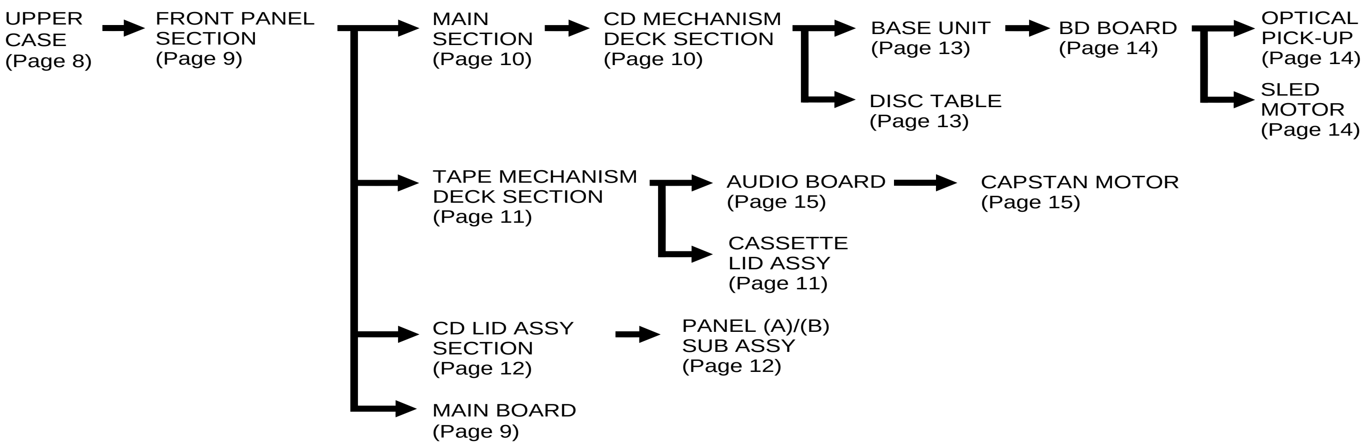
6 Press ENTER/NEXT.
The station is stored.

7 Repeat steps 1 through 6 to store other stations.

continued

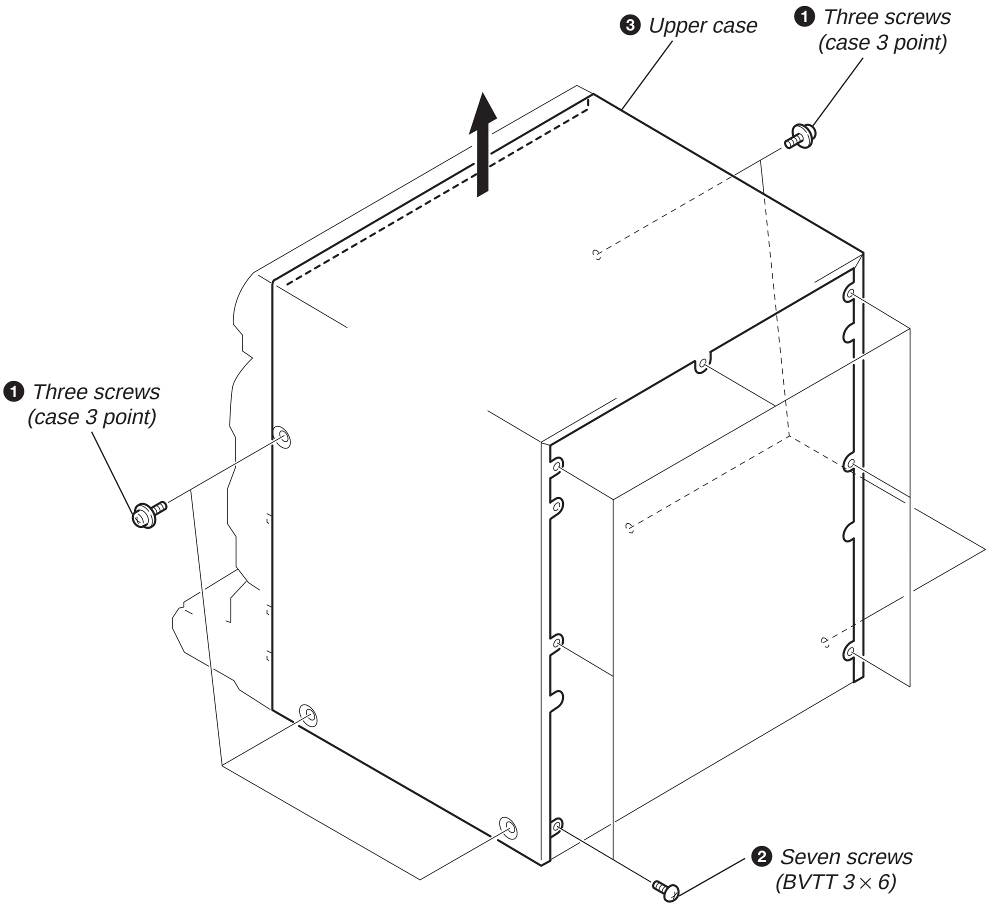
SECTION 2
DISASSEMBLY

• This set can be disassembled in the order shown below.

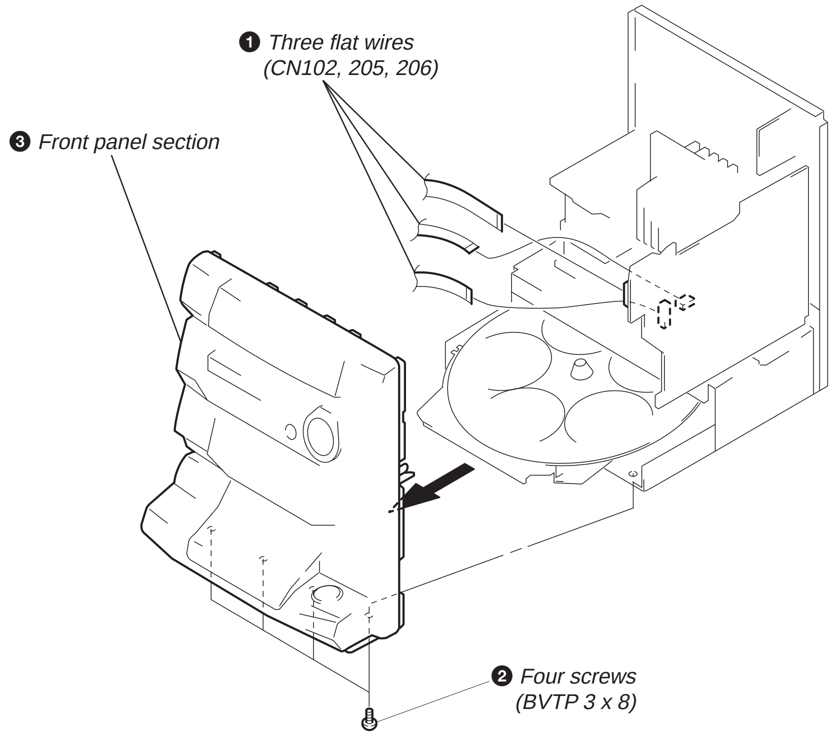


Note: Follow the disassembly procedure in the numerical order given.

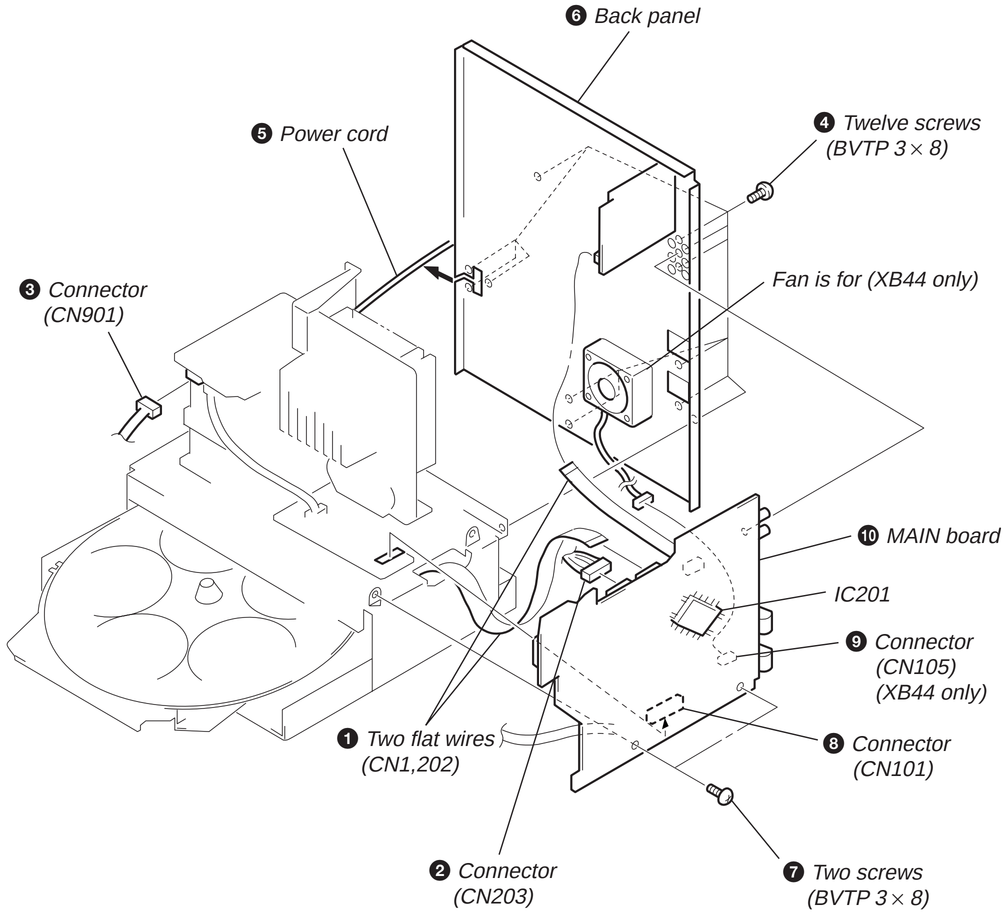
2-1. UPPER CASE



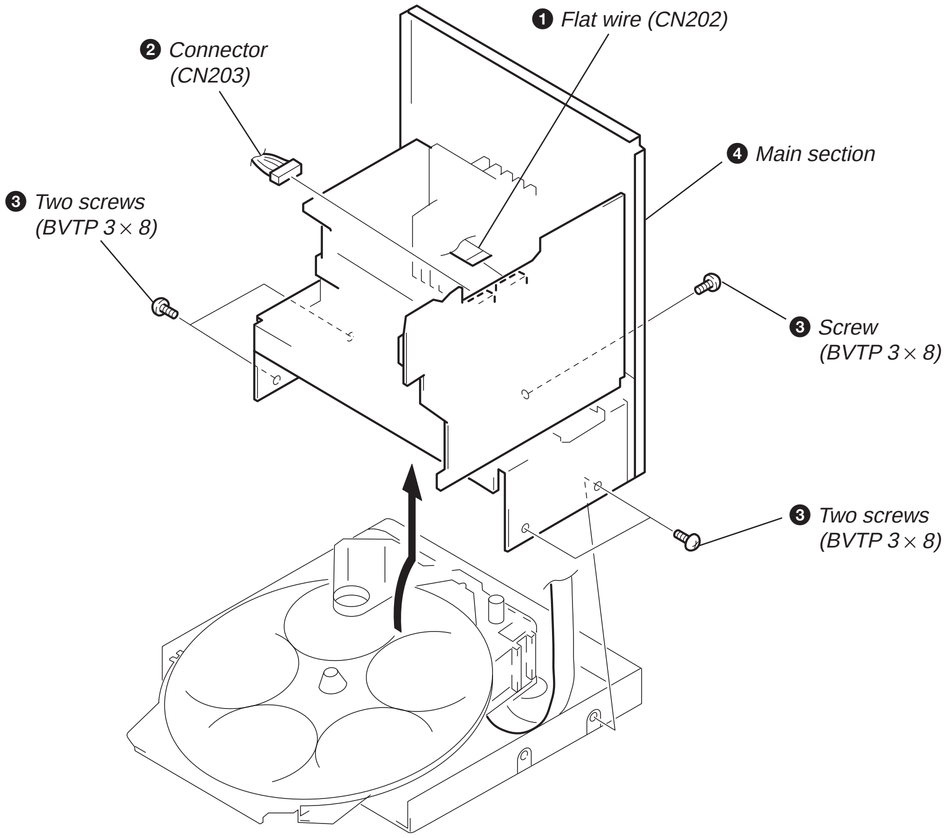
2-2. FRONT PANEL SECTION



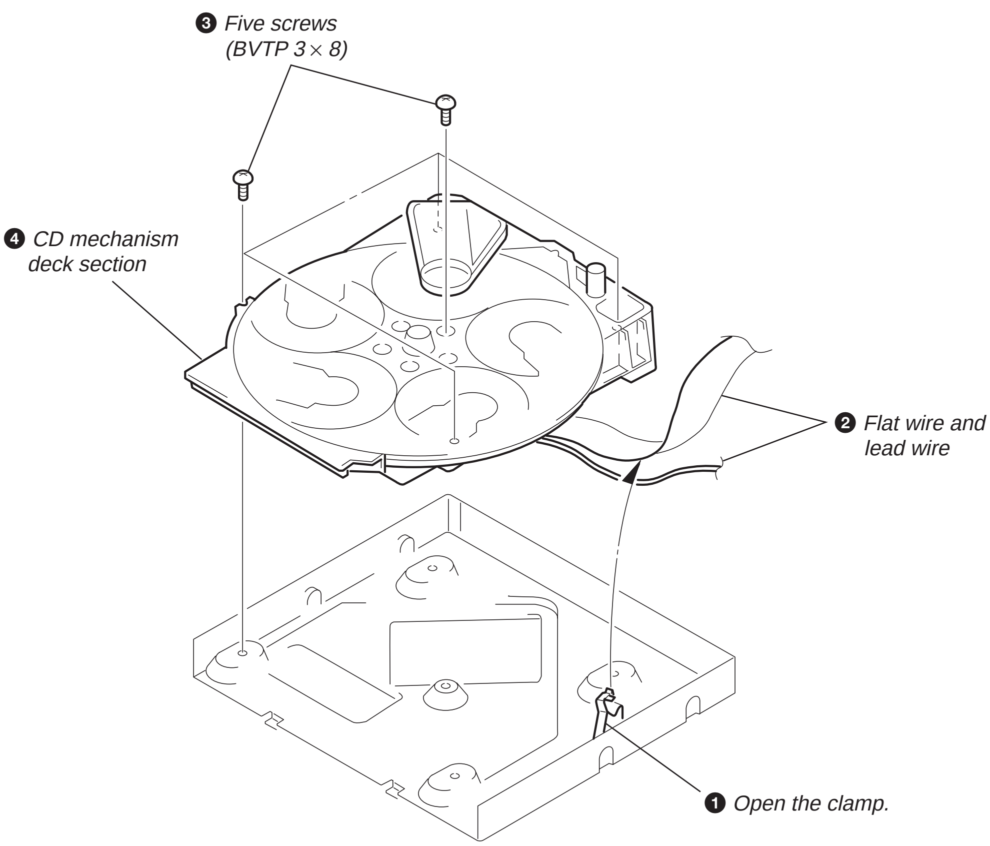
2-3. MAIN BOARD



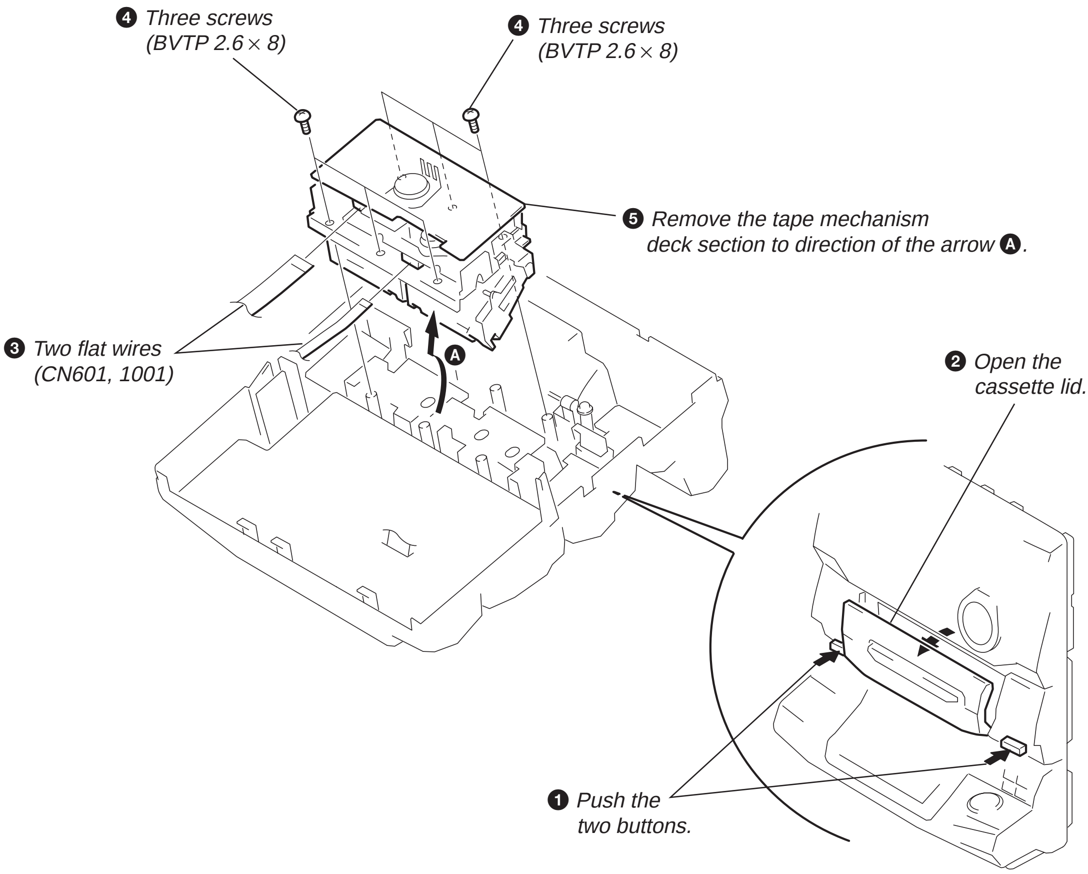
2-4. MAIN SECTION



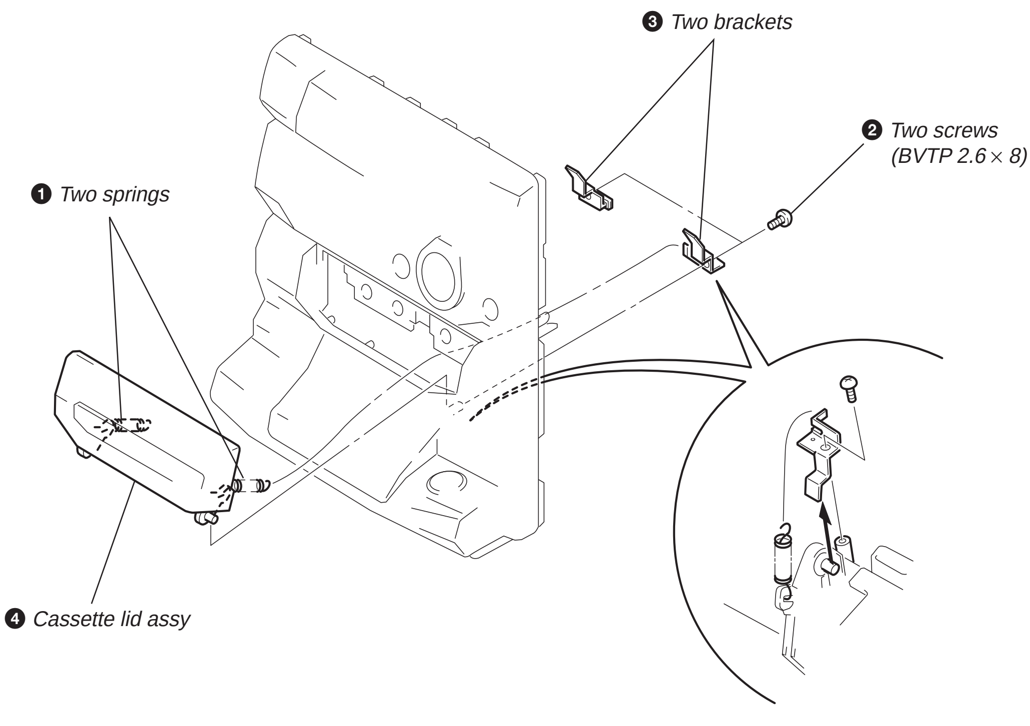
2-5. CD MECHANISM DECK SECTION



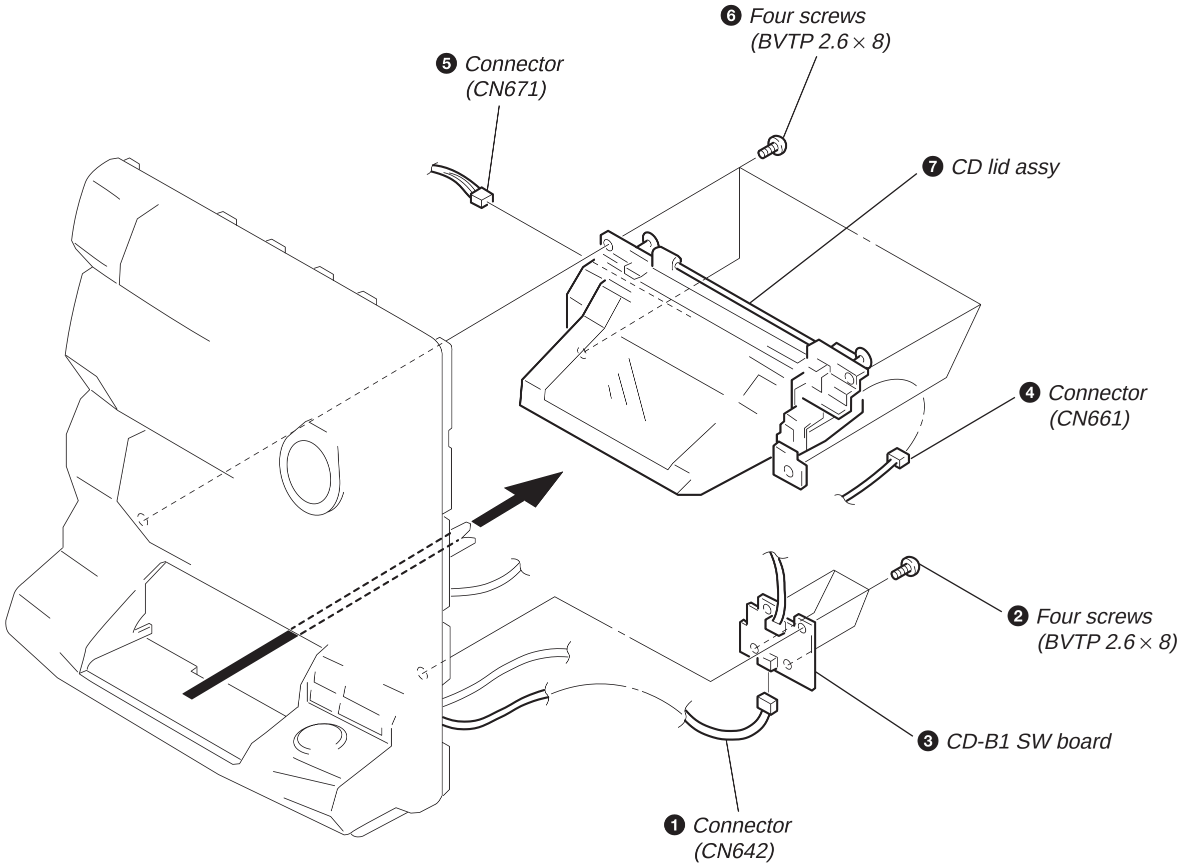
2-6. TAPE MECHANISM DECK SECTION



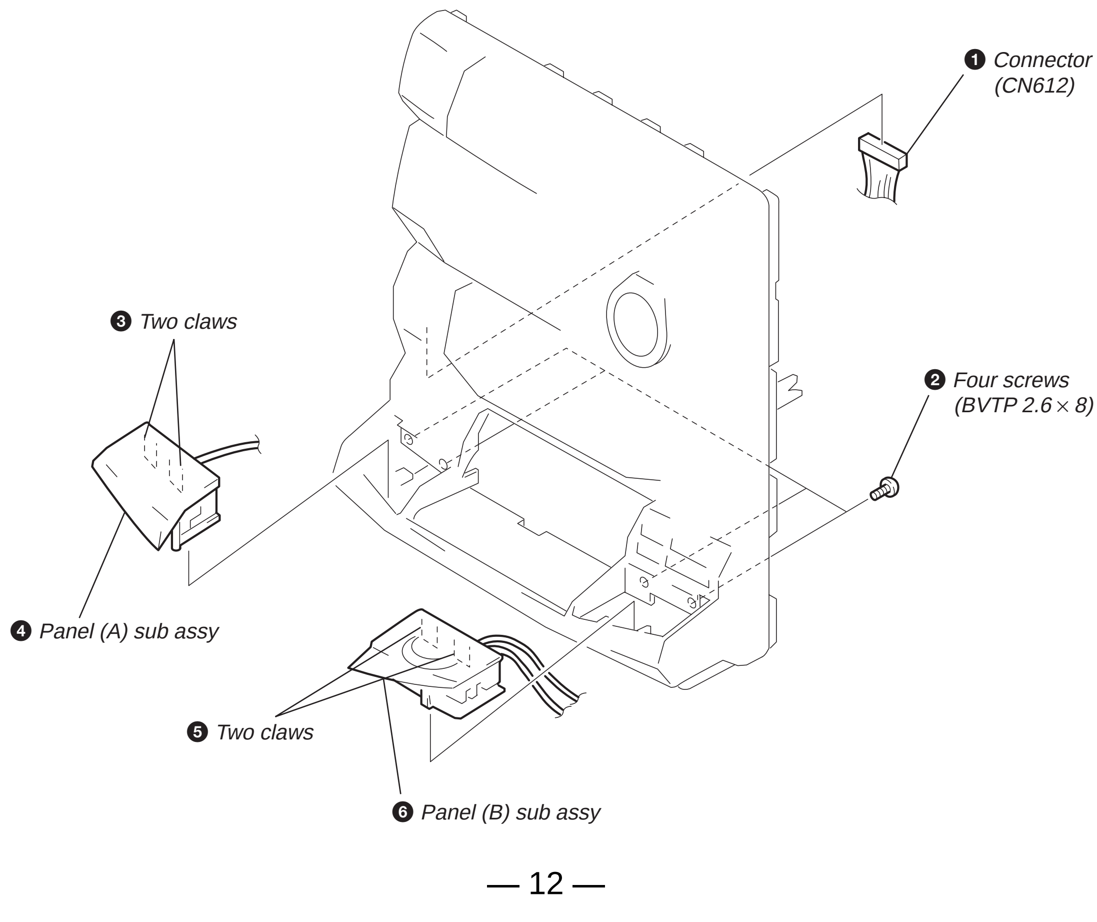
2-7. CASSETTE LID ASSY



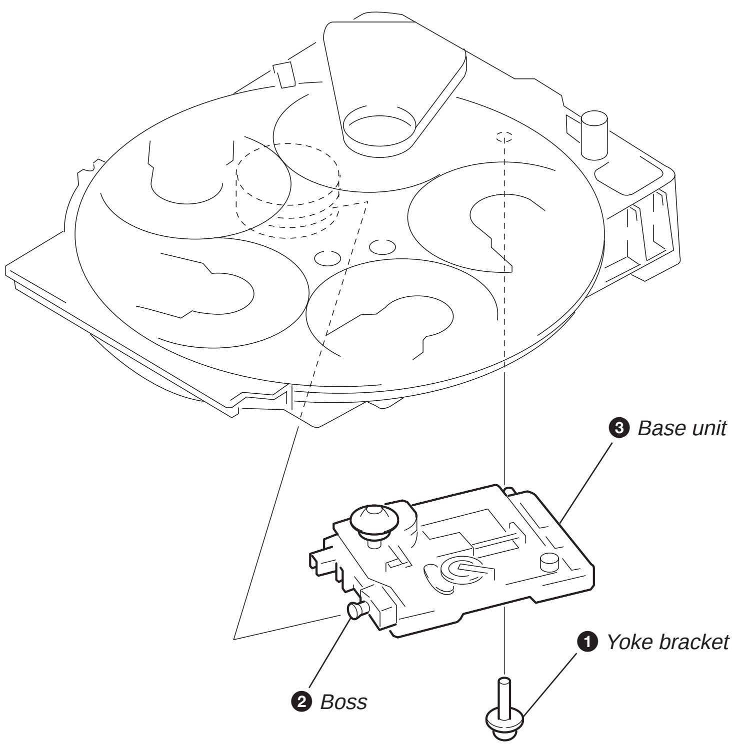
2-8. CD LID ASSY SECTION



2-9. PANEL (A) / (B) SUB ASSY

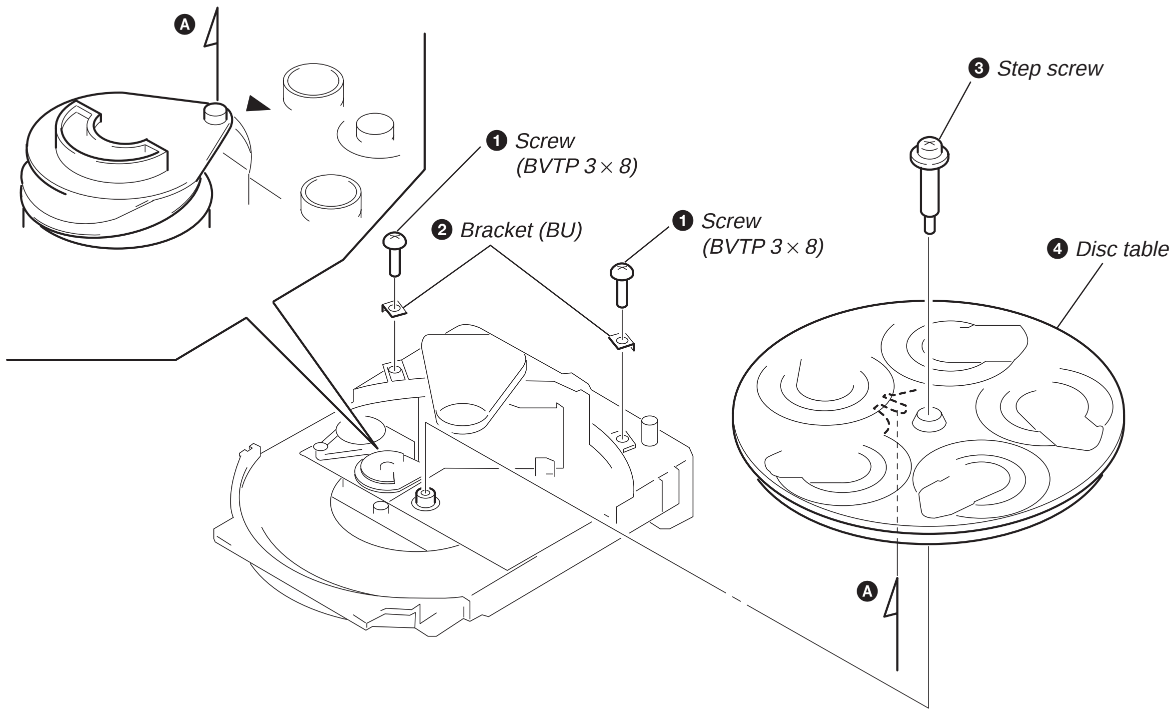


2-10. BASE UNIT

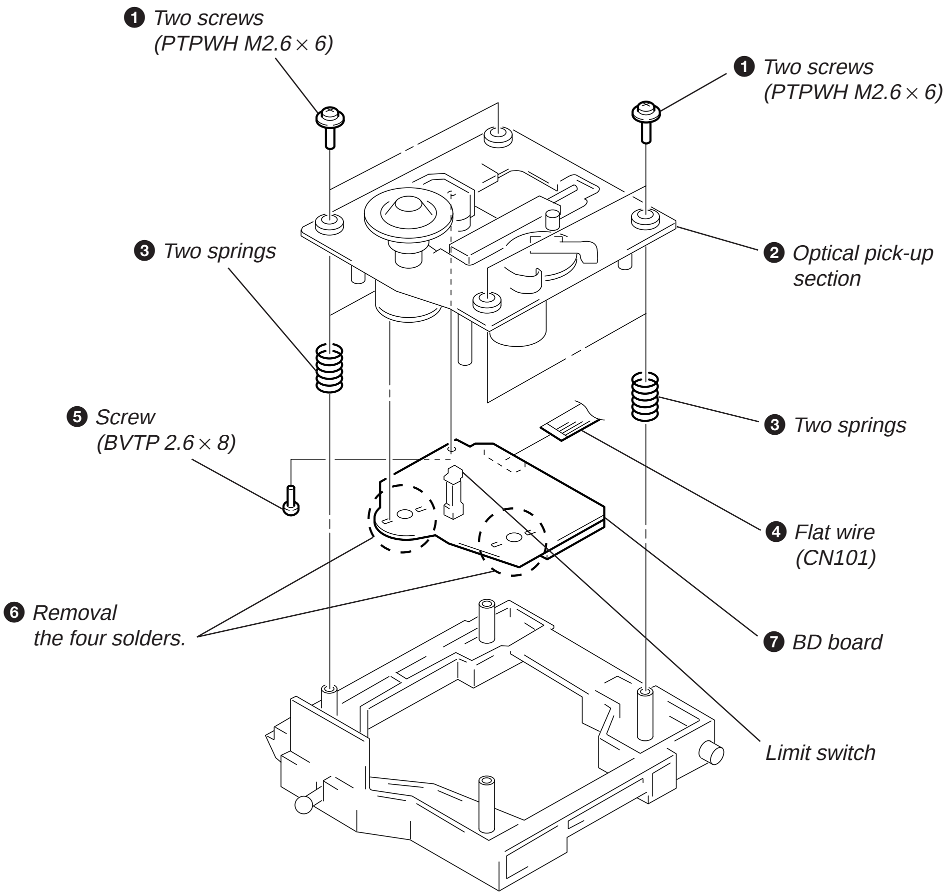


2-11. DISC TABLE

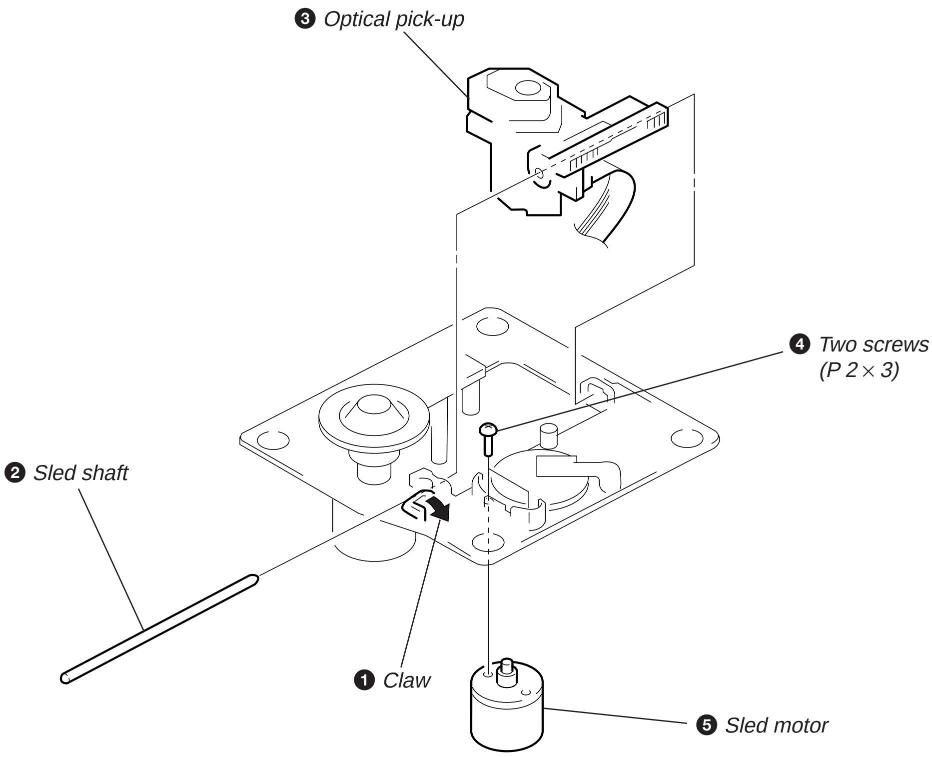
Note:
When the disc table is installed, adjust the positions of roller cam and mark ▶ as shown in the figure, then set to the groove of disc table.



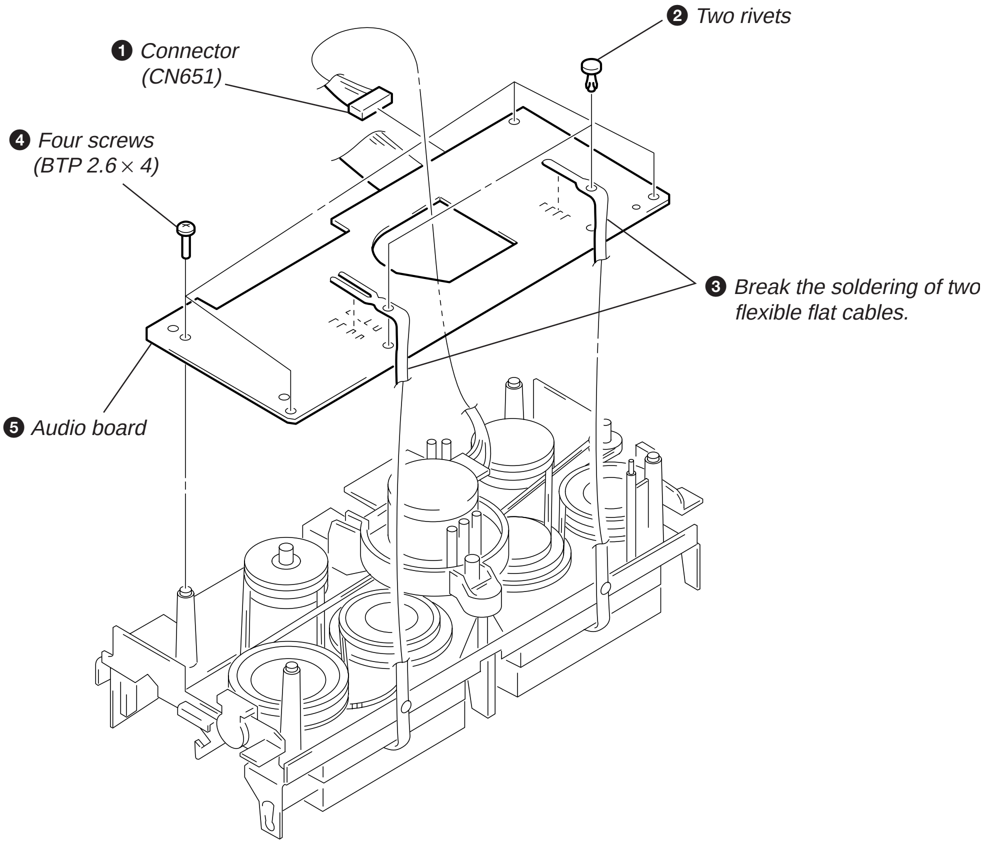
2-12. BD BOARD



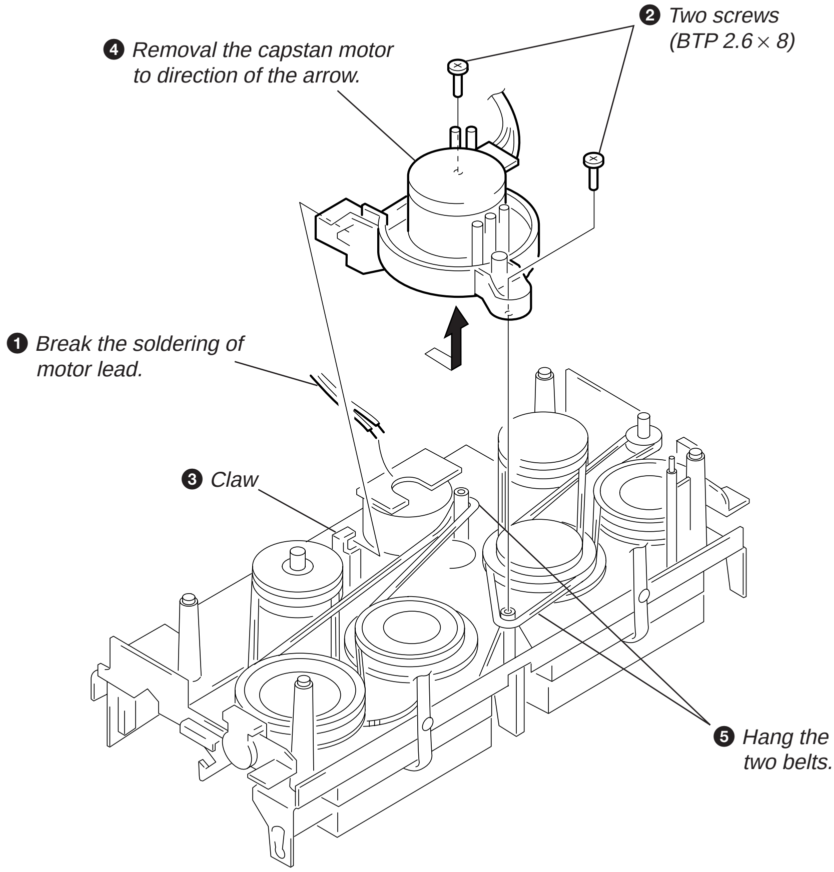
2-13. OPTICAL PICK-UP, SLED MOTOR



2-14. AUDIO BOARD



2-15. CAPSTAN MOTOR



SECTION 3
TEST MODE

[MC Cold Reset]

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press three buttons [GROOVE], [ENTER/NEXT], and [DISC 1] simultaneously.
2. The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

[CD Delivery Mode]

- This mode moves the pickup to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press [POWER] button to turn the set ON.
2. Press [PLAY MODE] button and [POWER] button simultaneously.
3. A message “LOCK” is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

[MC Hot Reset]

- This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

1. Press three buttons [GROOVE], [ENTER/NEXT], and [DISC 2] simultaneously.
2. The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

[Sled Servo Mode]

- This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pickup.

Procedure:

1. Select the function “CD”.
2. Press three buttons [GROOVE], [ENTER/NEXT], and [FLASH] simultaneously.
3. The Sled Servo mode is selected, if “CD” is flashing on the fluorescent indicator tube.
4. With the CD in stop status, press [▶▶] button in CD section to move the pickup to outside track, or [◀◀] button to inside track.
5. To exit from this mode, perform as follows:
   1) Move the pickup to the most inside track.
   2) Press three buttons in the same manner as step 2.

Note:

- Always move the pickup to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

[Change-over of AM Tuner Step between 9kHz and 10kHz]

- A step of AM channels can be changed over between 9kHz and 10kHz.

Procedure:

1. Press [POWER] button to turn the set ON.
2. Select the function “TUNER”, and press [TUNER/BAND] button to select the BAND “AM”.
3. Press [POWER] button to turn the set OFF.
4. Press [ENTER/NEXT] and [POWER] buttons simultaneously, and the display of fluorescent indicator tube changes to “AM 9k STEP” or “AM 10k STEP”, and thus the channel step is changed over.

[LED and Fluorescent Indicator Tube All Lit, Key Check Mode]

Procedure:

1. Press three buttons [GROOVE], [ENTER/NEXT], and [DISC 3] simultaneously.
2. LEDs and fluorescent indicator tube are all turned on. Press [DISC 2] button, and the key check mode is activated.
3. In the key check mode, the fluorescent indicator tube displays “K 1 J0 V0”. Each time a button is pressed, “K”value increases. However, once a button is pressed, it is no longer taken into account.
   “J” Value increases like 1, 2, 3 ... if rotating [JOG] knob in “+” direction, or it decreases like 0, 9, 8 ... if rotating in “–” direction.
   “V” Value increases like 1, 2, 3 ... if rotating [VOLUME] knob in “+” direction, or it decreases like 0, 9, 8 ... if rotating in “–” direction.
4. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[Aging Mode]

This mode can be used for operation check of CD section and tape deck section.

- If an error occurred:
  The aging operation stops.
- If no error occurs:
  The aging operation continues repeatedly.

1. Aging Mode in CD Section

1-1. Operating Method of Aging Mode

1. Set discs in DISC 1 and DISC 3 trays.
2. Select the function "CD".
3. Press three buttons [GROOVE], [ENTER/NEXT], and [DISC 5] simultaneously.
4. The aging mode is activated, if a roulette mark on the fluorescent indicator tube is flashing.
5. In the aging mode, the aging is executed in a sequence given in "1-2. Operation during Aging Mode".
   The aging continues unless an alarm occurred.
6. To exit from the aging mode, press [POWER] button to turn the set OFF.

- If a button other than buttons in the CD section is pressed during aging, the aging in the CD section is finished.
- To execute aging to the tape deck section successively, press [▷] button in the deck A.
  "AGING" is displayed on the fluorescent indicator tube. (For the aging in tape deck, see "2. Aging Mode in Tape Deck Section".

1-2. Operation during aging Mode

In the aging mode, the program is executed in the following sequence.

1. The disc tray turns to select a disc. (For a disc selection sequence, see Section 1-3.)
2. TOC of disc is read.
3. The pickup accesses to the last track.
4. Steps 1 through 3 are repeated.

1-3. Disc Selection Sequence

- During the aging mode, discs are selected in the following sequence:

Disc 1 → Disc 3
↑ ↓
Disc 3 ← Disc 1

2. Aging Mode in Tape Deck Section

2-1. Operating Method of Aging Mode

1. Load a commercially available 10-minute tape into the decks A and B respectively.
   (If a 10-minute tape is not available, another tape may be used but a cycle time will be longer.)
2. Select the function "TAPE".
3. Rewind tapes in advance by pressing [◀◀] button respectively on decks A and B.
4. Press three buttons [GROOVE], [ENTER/NEXT], and [DISC 5] simultaneously.
5. Press [▷] button on deck A. (This button triggers the aging mode.)
6. The aging mode is activated if "AGING A" is displayed on the fluorescent indicator tube.
7. In the aging mode, the aging is executed in a sequence given in "2-2. Operation during Aging Mode".
   The aging continues unless an alarm occurred.
8. To exit from the aging mode, press POWER button to turn the set OFF.

2-2. Operation during Aging Mode

In the aging mode, the program is executed in the following sequence.

1. A tape on FWD side is played for one minute.
2. PAUSE STOP is made.
3. Recording is made for 3 minutes. (For the deck not having the record function, the play is executed.)
4. FF is executed up to the end of tape.
5. A tape is reversed, and the tape on REV side is played for one minute.
6. PAUSE STOP is made.
7. Recording is made for 3 minutes. (For the deck not having the record function, the play is executed.)
8. FF is executed up to the end of tape.
9. Steps 1 through 8 are executed for the other deck.
10. Steps 1 through 9 are repeated unless an alarm occurred.

2-3. Deck Selection Sequence

- During the aging mode, decks are selected in the following sequence:

Deck A (FWD) → Deck A (REV)
↑ ↓
Deck B (REV) ← Deck B (FWD)

SECTION 4
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:
   record/playback head　　pinch roller
   erase head　　rubber belts
   capstan　　idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

Mode	Torque Meter	Meter Reading
Forward	CQ-102C	36 to 61g·cm (0.50 – 0.84 oz·inch)
Forward Back Tension	CQ-102C	2 to 6g·cm (0.026 – 0.082 oz·inch)
Reverse	CQ-102RC	36 to 61g·cm (0.50 – 0.84 oz·inch)
Reverse Back Tension	CQ-102RC	2 to 6g·cm (0.026 – 0.082 oz·inch)
FF, REW	CQ-201B	61 to 143g·cm (0.85 – 1.98 oz·inch)

• Tape Tension Measurement

Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 100g (3.52 oz)
Reverse	CQ-403R	more than 100g (3.52 oz)

SECTION 5
ELECTRICAL ADJUSTMENTS

DECK SECTION　0dB=0.775V

1. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.
8. Set to test mode. (Press key switch same time GROOVE ENTER/NEXT and DISC 4 button.)

• **Test Tape**

Tape	Signal	Used for
P-4-A100	10kHz, –10 dB	Azimuth Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment
P-4-L300	315Hz, 0dB	Level Adjustment

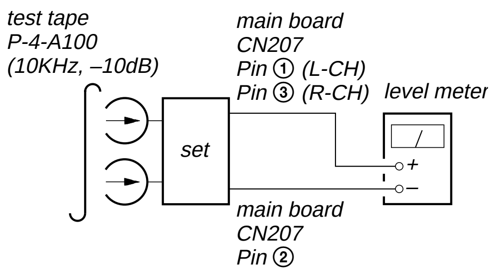
Record/Playback Head Azimuth Adjustment

DECK A　**DECK B**

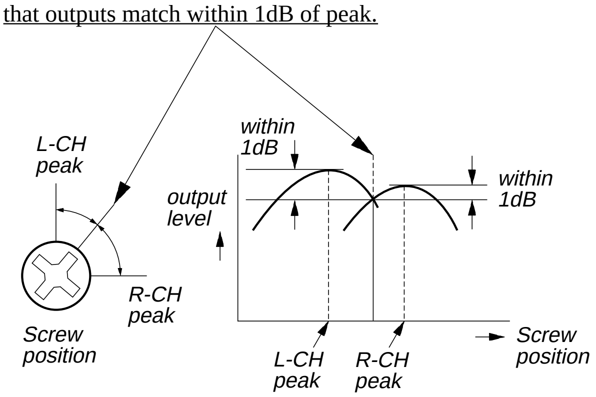
Note: Perform this adjustments for both decks

Procedure:

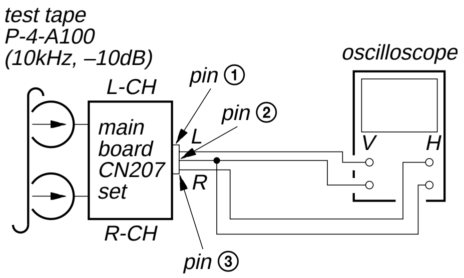
1. Mode: Playback (FWD)

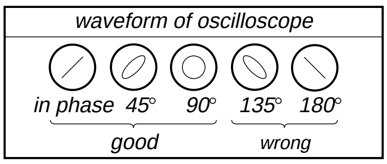


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.



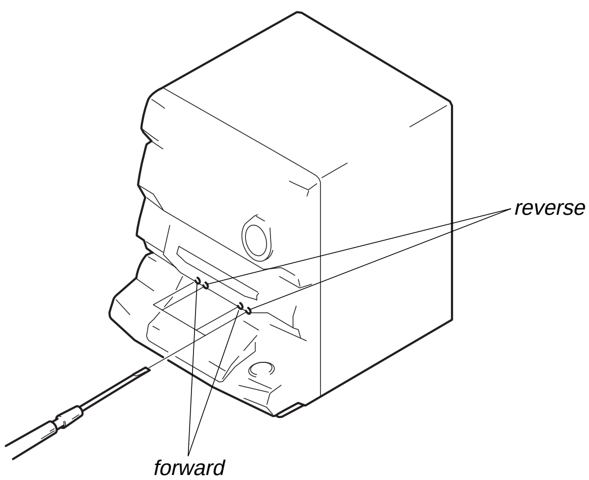
3. Mode: Playback (FWD)





4. Repeat steps 1 to 3 in playback (REV) mode.
5. After the adjustments, apply suitable locking compound to the pats adjusted.

Adjustment Location: Record/Playback Head (Deck A and B) and main board.

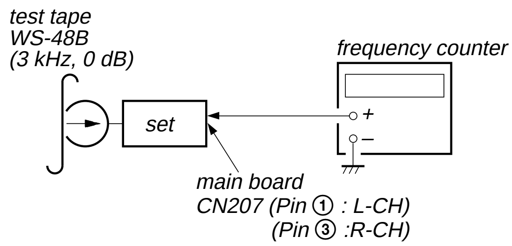


Tape Speed Adjustment DECK A

Notes:
- Start the Tape Speed adjustment as below after setting to the test mode.
- In the test mode, the tape speed is high during pressing the H. SPEED DUB button.

Procedure:
1. Turn the power switch on.
2. Press the GROOVE button, ENTER/NEXT button and DISC 4 button simultaneously.
   To exit from the test mode, press the POWER button.

Mode: Playback (FWD)



1. Insert the WS-48B into the deck A and the blank tape into the deck B.
2. Press the REC button and ▷ button on the deck B. Then the deck B is at recording mode.
3. Set the deck A to playback mode.
4. Keep pressing the H. SPEED DUB button in playback mode. Then at HIGH speed mode.
5. Adjust RV652 on the AUDIO board do that frequency counter reads 6,000 ± 60 Hz.
6. Take off the H. SPEED DUB button. Then at NORMAL speed mode.
7. Adjust RV651 on the AUDIO board so that frequency counter reads $3{,}000^{+30}_{-10}$ Hz.
8. Frequency difference between deck A and deck B the beginning of the tape should be within ± 1.5%.

Adjustment Location: AUDIO board

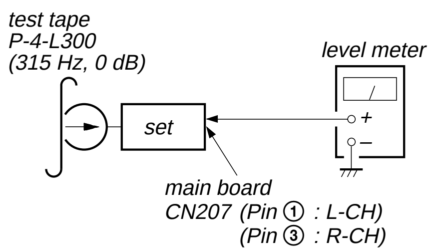
Sample Value of Wow and flutter

W.RMS (JIS) within 0.3%
(test tape: WS-48B)

Playback level Adjustment DECK A DECK B

Procedure:

Mode: Playback (FWD)



Deck A is RV311 (L-CH) and RV411 (R-CH), Deck B is RV301 (L-CH) and RV401 (R-CH) so that adjustment within adjustment level as follows.

Adjustment Level:

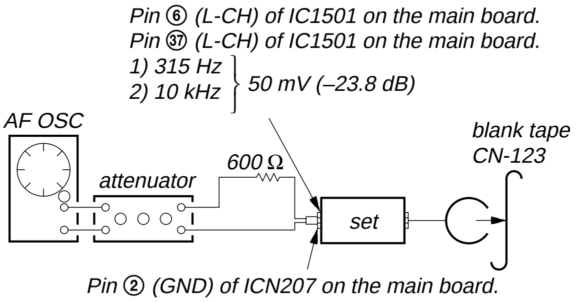
CN207 PB level: 301.5 to 338.3 mV (–8.2 to –7.2 dB) level difference between the channels: within ±0.5 dB

Adjustment Location: AUDIO and main boards

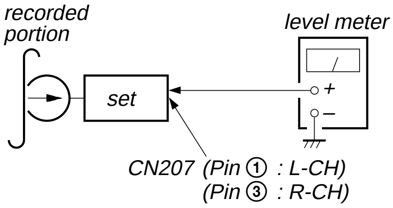
Record Bias Current Adjustment **DECK B**

Procedure:

1. Mode: record



2. Mode: Playback

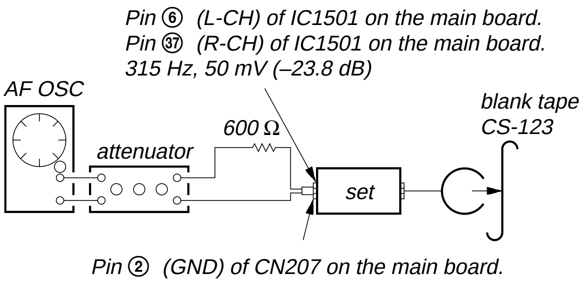


Confirm playback that the signal recorded in step 1 becomes adjustable limits as follows.
If these levels are not adjustable limits, adjust the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 1 and 2.
Adjustable limits: Playback output of 315 Hz to playback output of 10kHz: 0±0.5 dB
Adjustment Location: AUDIO and main boards

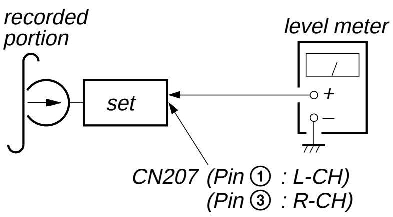
Record Level Adjustment **DECK B**

Procedure:

1. Mode: record



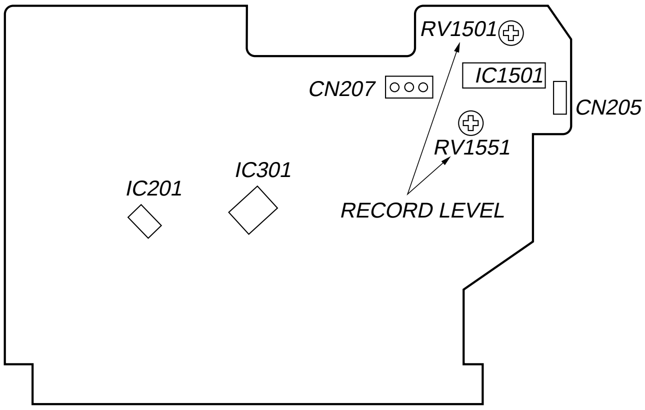
2. Mode: Playback



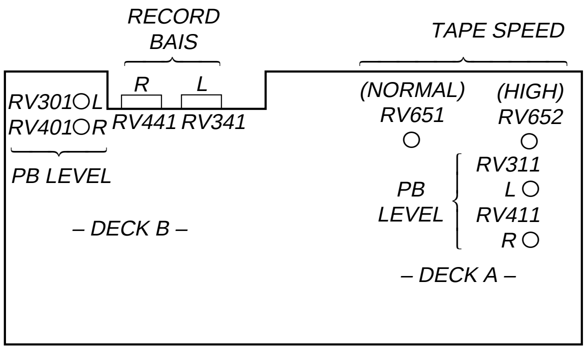
Confirm playback that the signal recorded in step 1 becomes adjustable limits as follows.
If these levels are not adjustable limits, adjust the RV1501 (L-CH) and RV1551 (R-CH) on the main board to repeat steps 1 and 2.

Adjustable limits:
CN207 PB level: 47.3 to 53.1 mV (–24.3 to –23.3 dB)
Adjustment Location: main board

[MAIN BOARD] (Component Side)



[AUDIO BOARD] (Conductor Side)



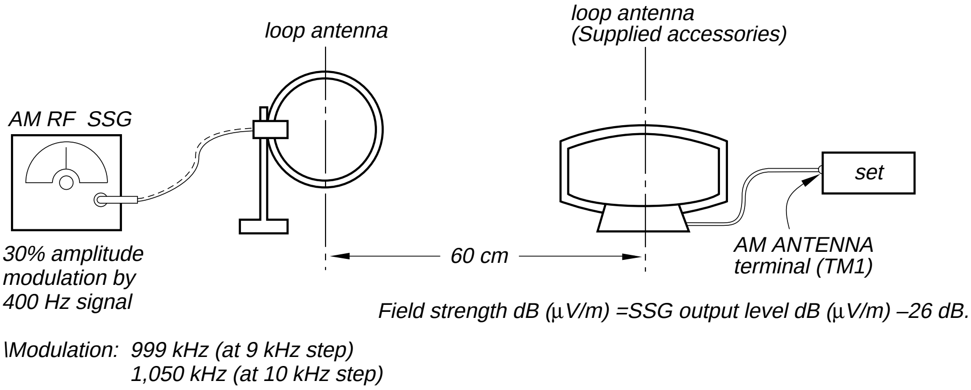
TUNER SECTION 0dB=1µV

Note 1: As a front-end (FE1) is difficult to repair if faulty, replace it with new one.
Note 2: No adjustment is needed due to a tuner pack for except AEP, UK, East European, CIS models.

AM Tuned Level Adjustment

Note: FM Tuned Level adjustment should be performed after this AM Tuned Level Adjustment.

Setting:
Band: MW



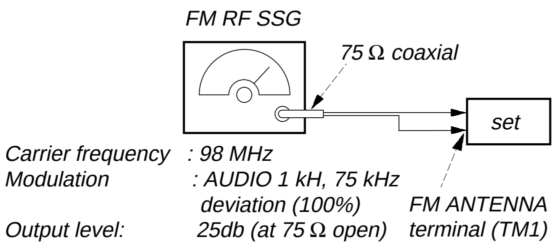
Procedure:
1. Set the output of SSG so that the input level of the set becomes 55 dB.
2. Tune the set to 999 kHz or 1,050 kHz.
3. Adjust RV41 to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location: TCB board

FM Tuned Level Adjustment

Note: This adjustment should be performed after the AM Tuned Level Adjustment.

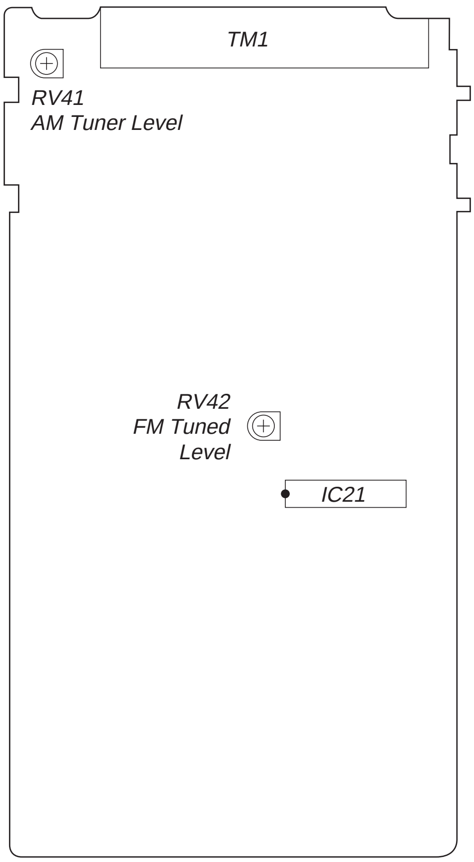
Setting:
Band: FM



Procedure:
1. Supply a 25 dB 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Adjust RV42 to the point (moment) when the TUNED indicator will change from going off to going on.

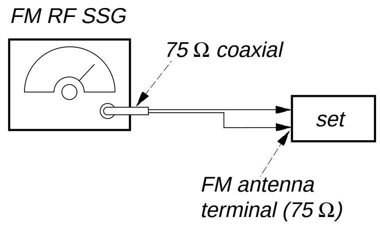
Adjustment Location: TCB board

[TCB BOARD] (Component Side)



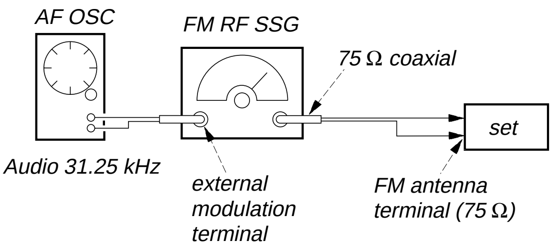
FM Polar Adjustment (East European, CIS model only)

Connection 1:



Carrier frequency: 69 MHz
Output level : 1 mV (60 dBμ) (at 75 Ω open)
Modulation: AUDIO 1 kHz, 10 kHz deviation

Connection 2:



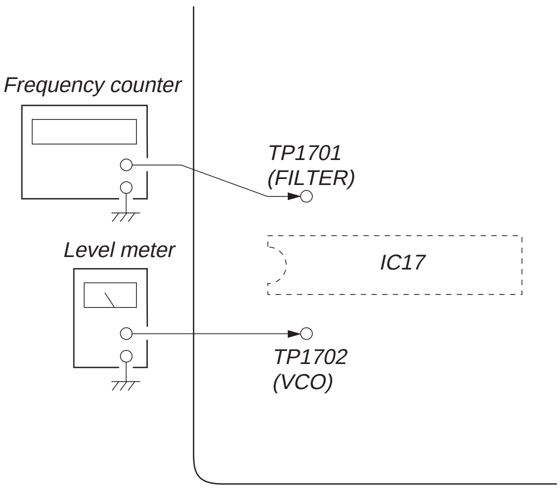
Carrier frequency: 69 MHz
Output level : 1 mV (60 dBμ) (at 75 Ω open)
Modulation: AUDIO 31.25 kHz, 10 kHz deviation
(EXTERNAL MODULATION)

Procedure:

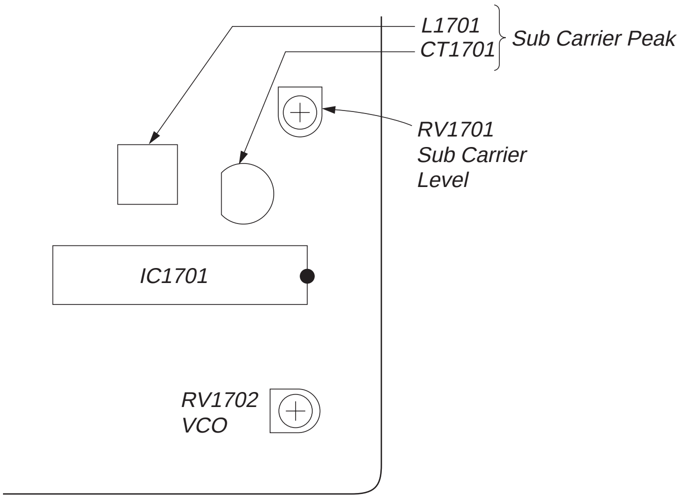
1. Set the modulation of FM RF SSG to AUDIO 1 kHz, 10 kHz deviation according to “Connection 1”.
2. Tune the set to 69 MHz.
3. Adjust the RV1702 so that the reading of frequency counter connected to TP1702 (VCO) becomes within 31.25 kHz ± 0.05 kHz. (VCO adjustment)
4. Then record the reading of the level meter connected to TP1701.
5. Set the modulation of FM RF SSG to AUDIO 31.25 kHz, 10 kHz deviation according to “Connection 2”.
6. Tune the set to 69 MHz.
7. Set the CT1701 to be mechanical center.
8. Adjust the L1701 so that the reading of the level meter connected to TP1701 (FILTER) becomes maximum. (SUB CARRIER PEAK Adjustment)
9. Adjust the RV1701 so that the level at the moment becomes 14 dB higher value than the level recorded in step 4. (SUB CARRIER LEVEL Adjustment)

Adjustment Location: TCB board

[TCB BOARD] (Conductor Side)



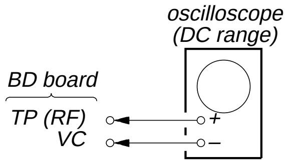
[TCB BOARD] (Component Side)



CD SECTION

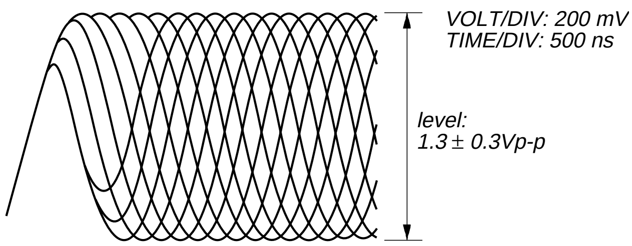
Note:
1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
5. Adjust the focus bias adjustment when optical block is replaced.

Focus Bias check

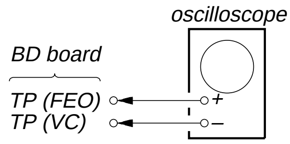


Procedure:
1. Connect oscilloscope to test point TP (RF). (GND terminal : VC)
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that the shape "◇" can be clearly distinguished at the center of the waveform and check the RF signal level.

• RF signal

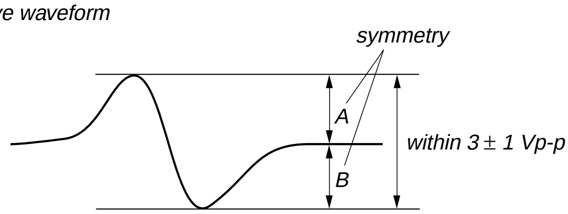


S Curve Check



Procedure:
1. Connect oscilloscope to test point TP (FEO).
2. Connect between test point TP (FOK) and GND by lead wire.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3±1 Vp-p.

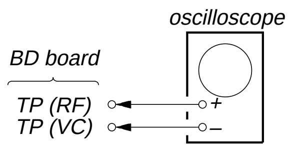
S-curve waveform



6. After check, remove the lead wire connected in step 2.

Notes:
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
- Take sweep time as long as possible and light up the brightness to obtain best waveform.

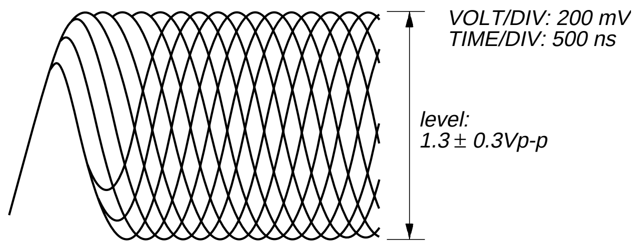
RF Level Check



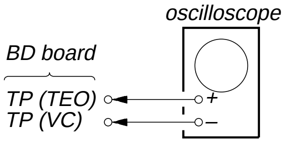
Procedure:
1. Connect oscilloscope to test point TP (RF) on BD board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note: Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

• RF signal



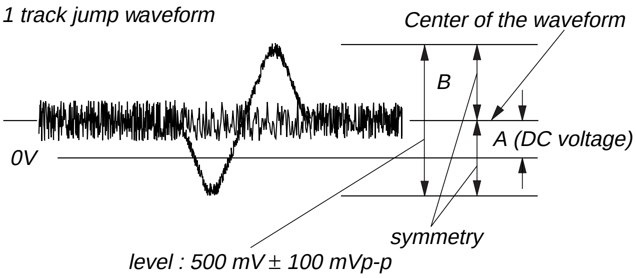
E-F Balance (1 Track Jump) check
(Without remote commander)



Procedure:

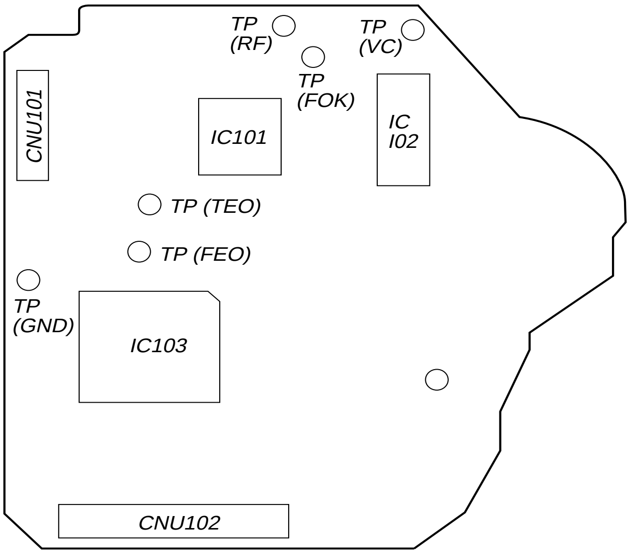
1. Connect oscilloscope to test point TP (TEO) on BD board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in to play the number five track.
4. Press the "❚❚ (Pause)" button. (Becomes the 1 track jump mode)
5. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform.
   Confirm the following:

$$\frac{A - B}{2\,(A + B)} \times 100 = \pm 7\ (\%)$$



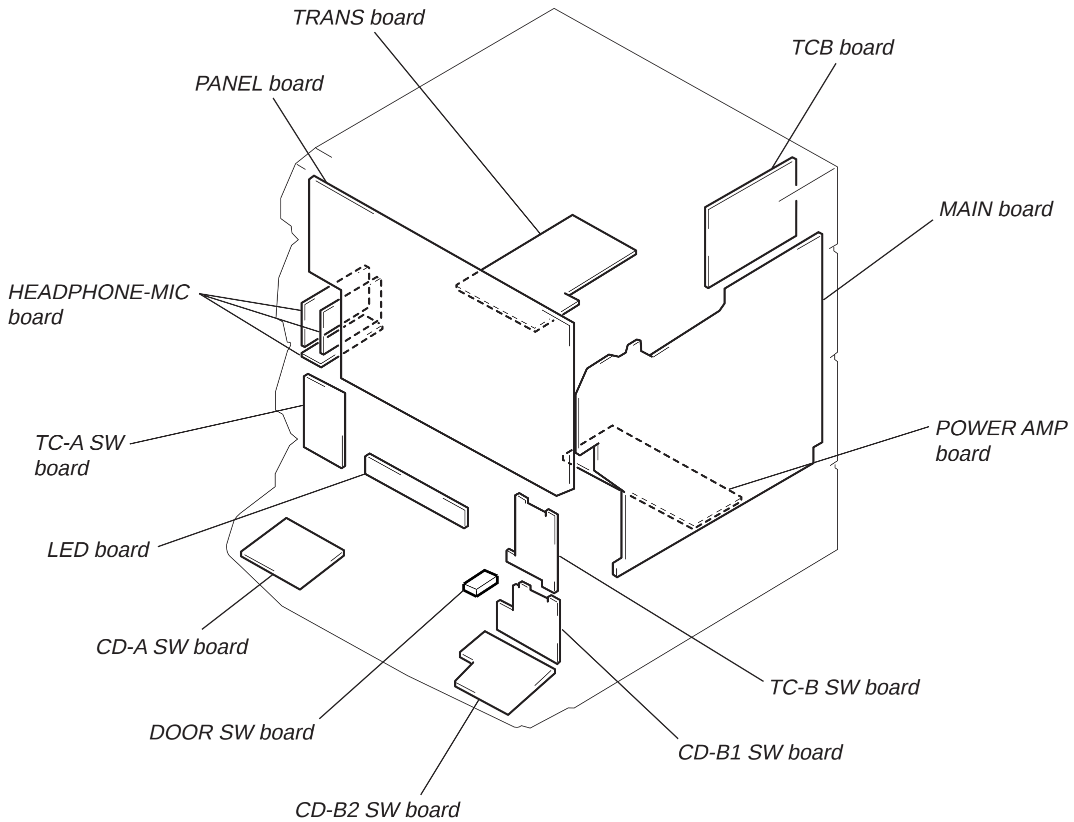
Adjustment Location:

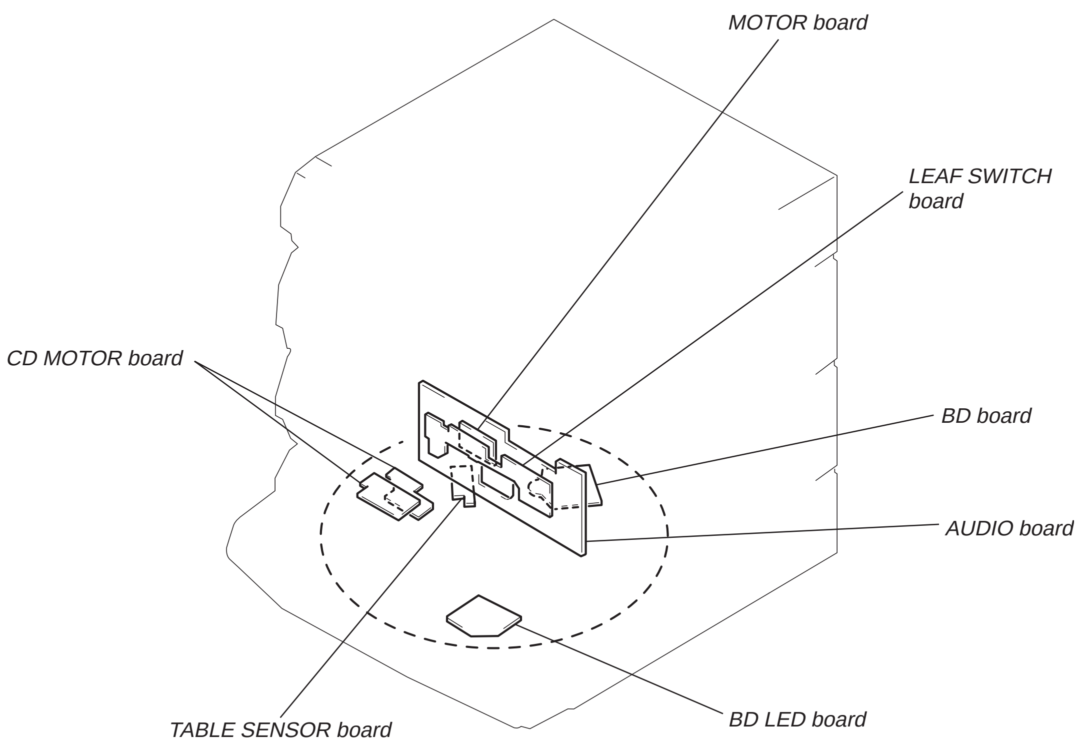
[BD BOARD] (Conductor Side)



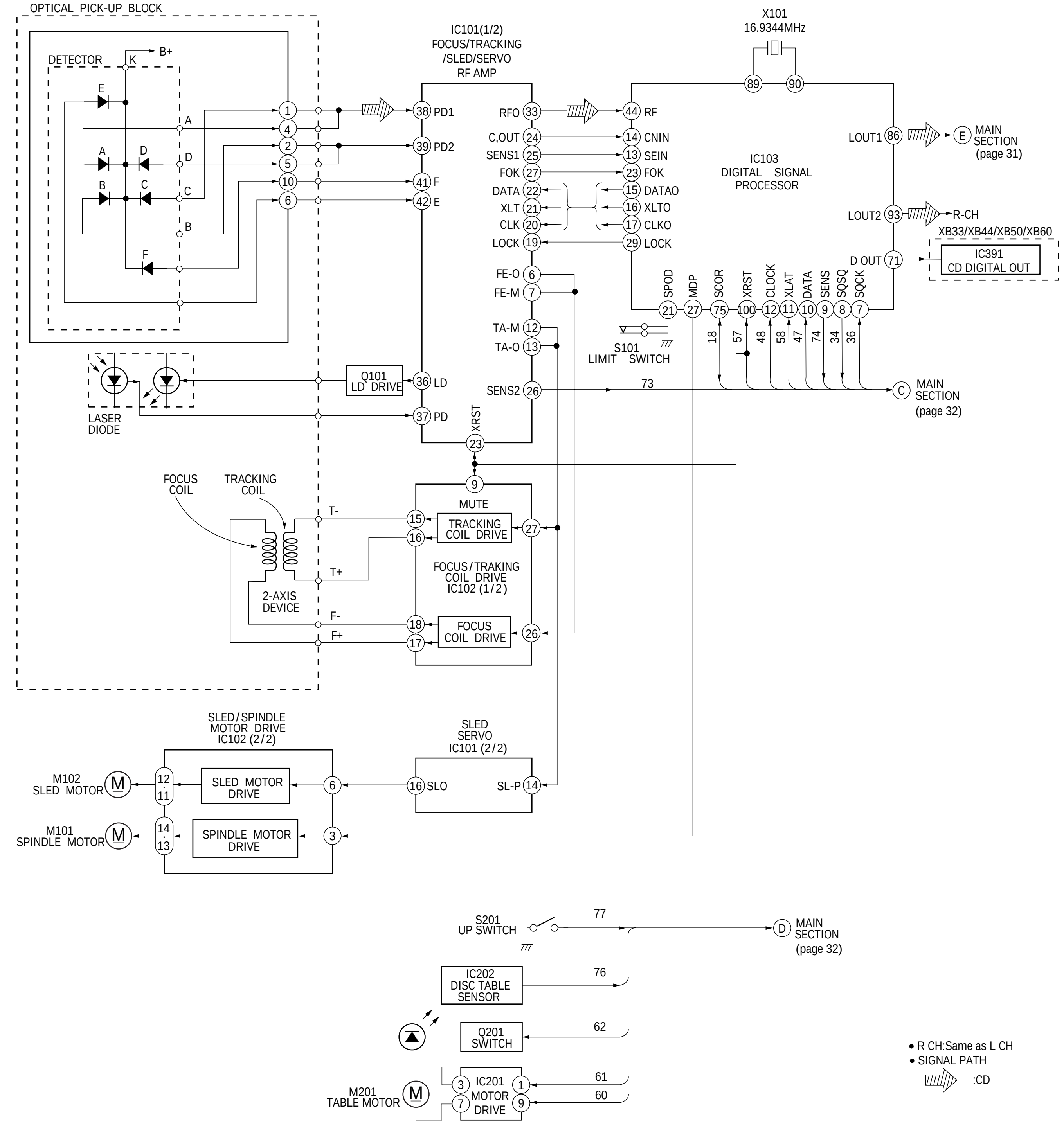
SECTION 6
DIAGRAMS

6-1. CIRCUIT BOARD LOCATION

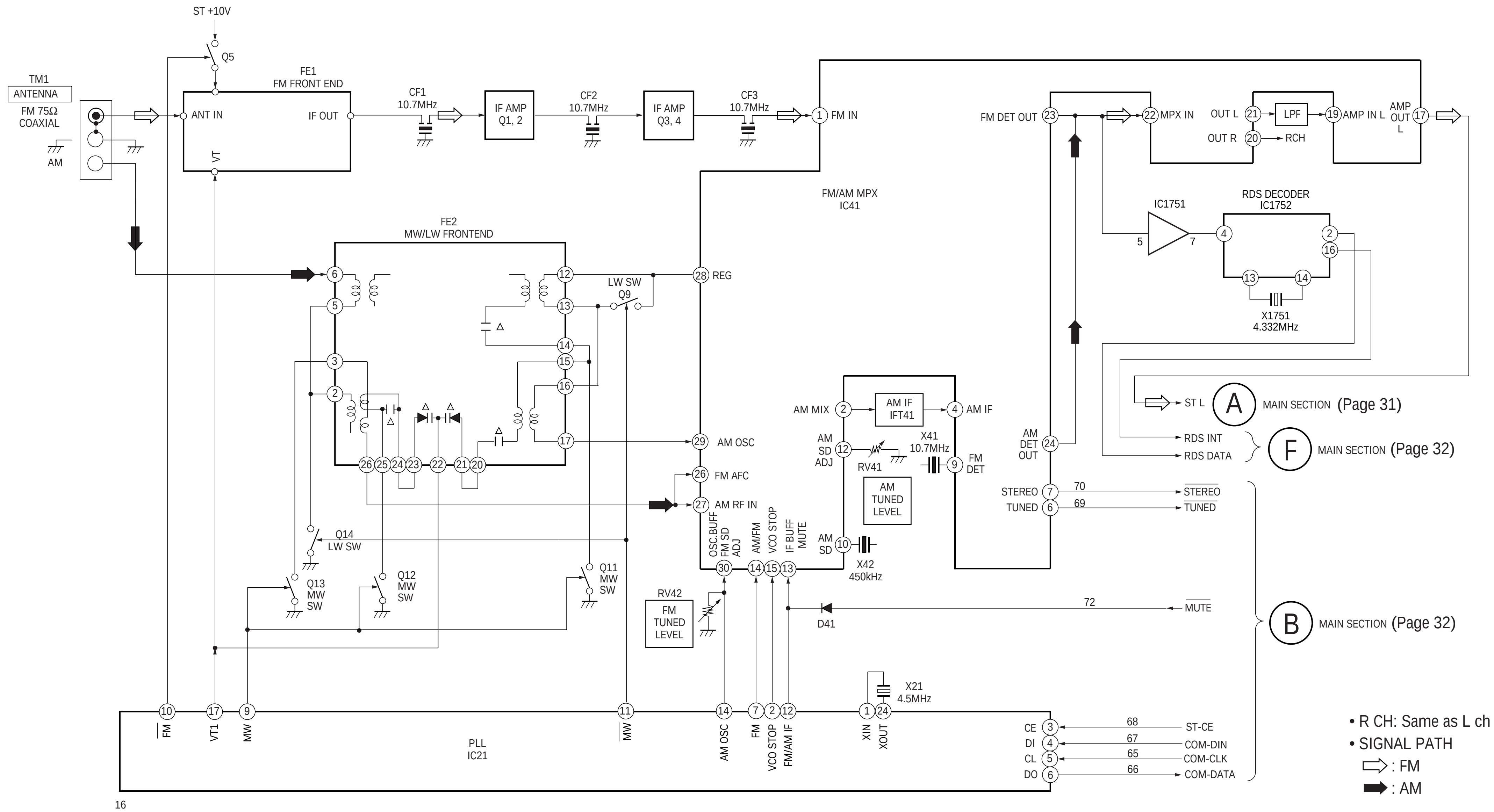




6-2. BLOCK DIAGRAMS – CD SECTION –

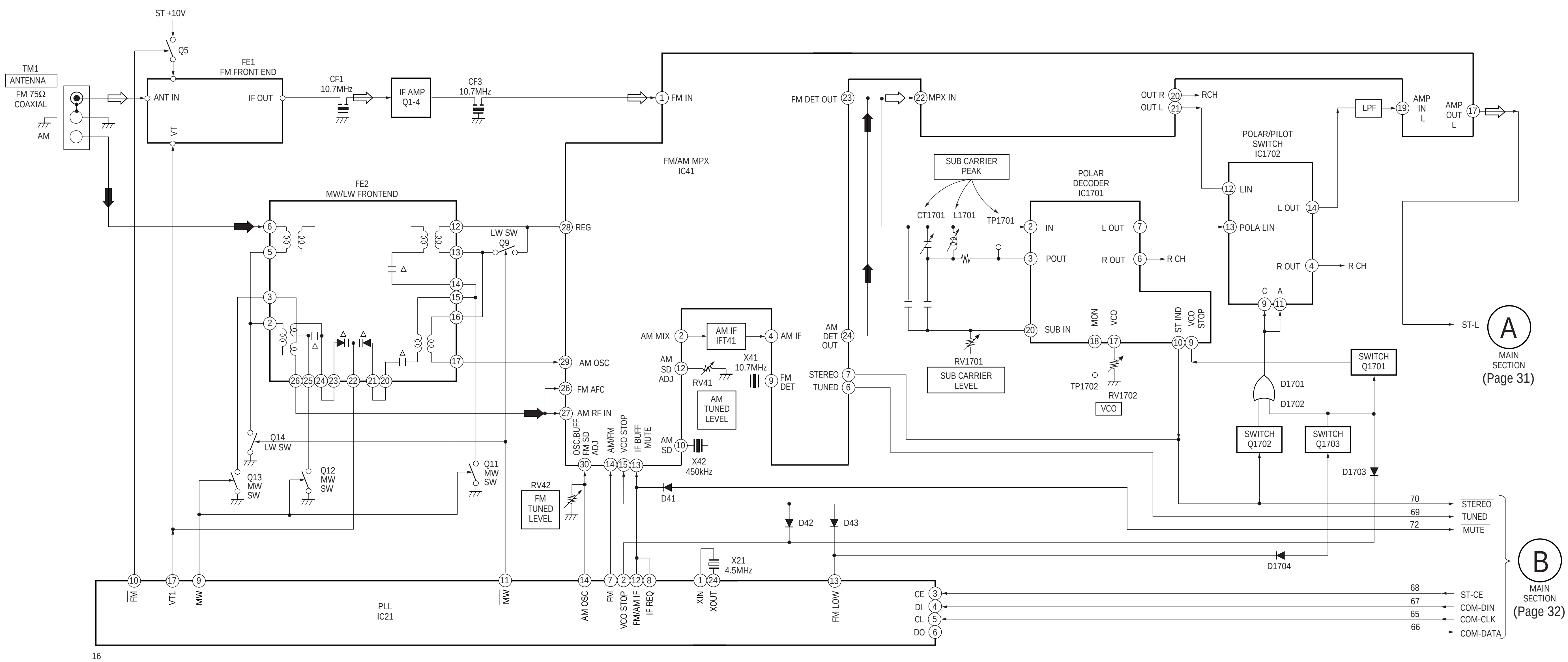


– TUNER SECTION – (AEP, UK model)



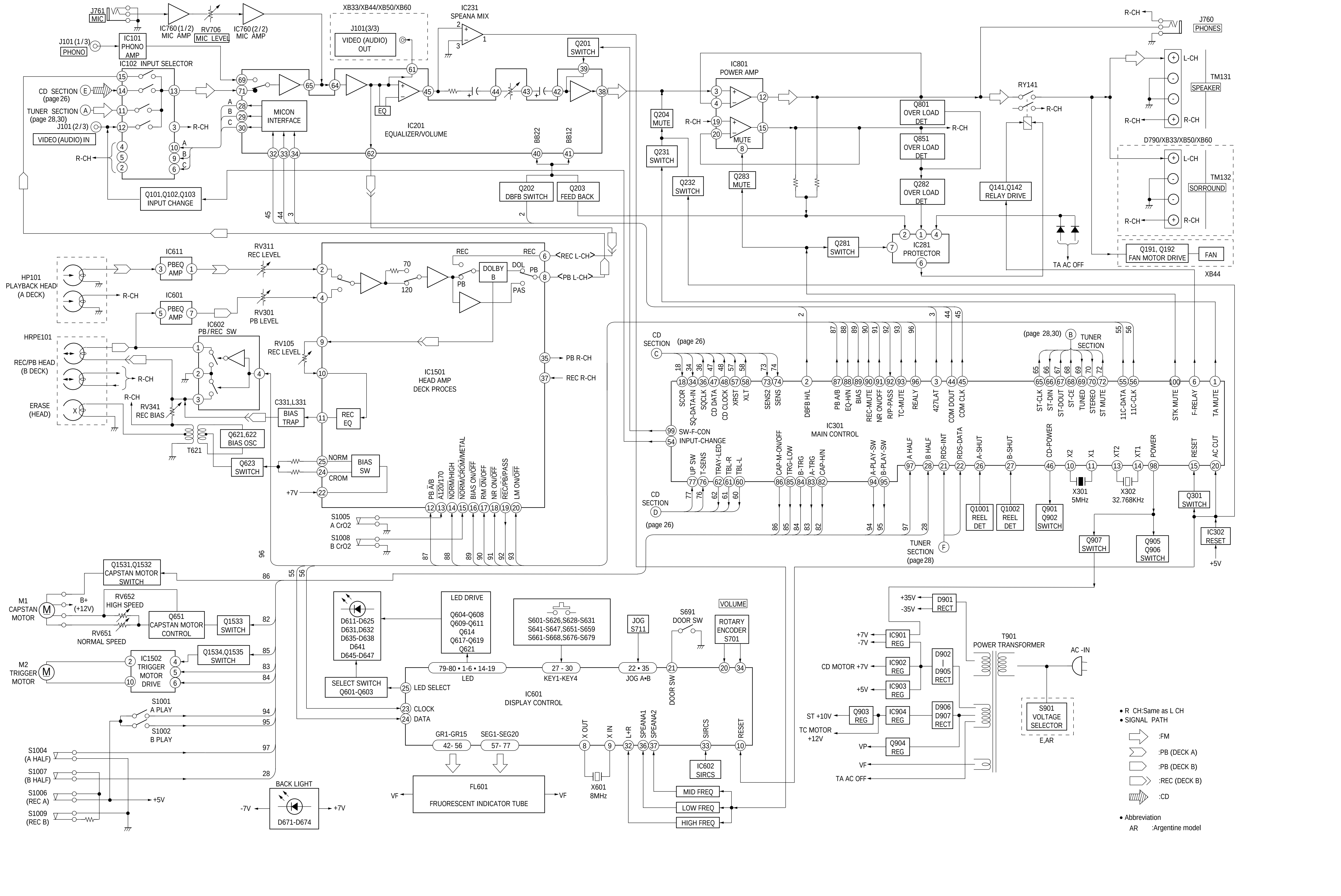
• R CH: Same as L ch
• SIGNAL PATH
⇨ : FM
➡ : AM

– TUNER SECTION – (East European, CIS model)



• R CH: Same as L ch
• SIGNAL PATH
⇨ : FM
➡ : AM

– MAIN SECTION –



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this necessary note is printed in each block.)

For schematic diagrams.
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

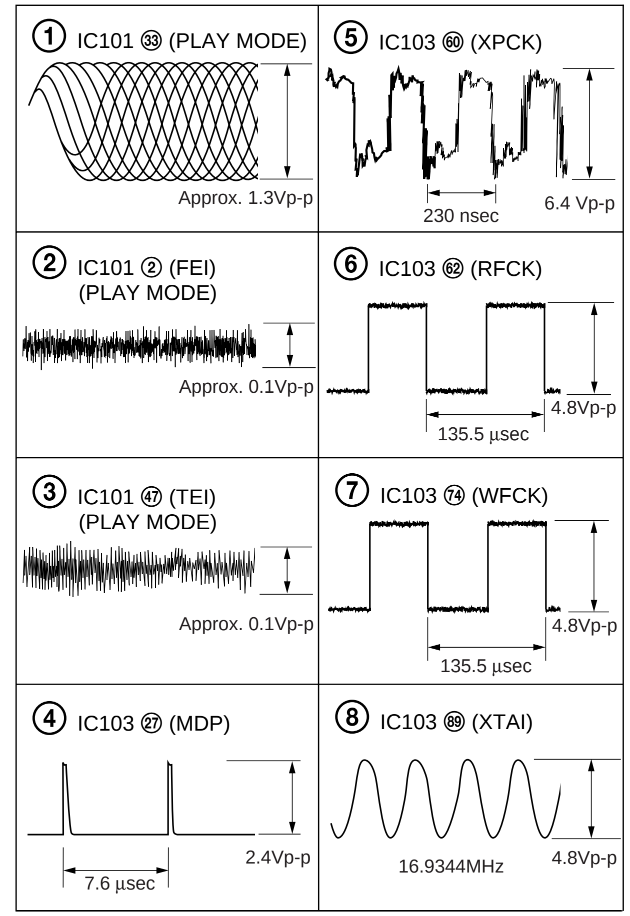
- B+ : B+ Line.
- B– : B– Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  - : FM
  - : VIDEO/MD
  - : PB (DECK A)
  - : PB (DECK B)
  - : REC (DECK B)
  - : CD
  - : PHONO
- Abbreviation
  - CND : Canadian
  - EE : East European
  - AUS : Australian
  - AR : Argentine
  - MX : Mexican
  - SAF : South African

For printed wiring boards.
Note:

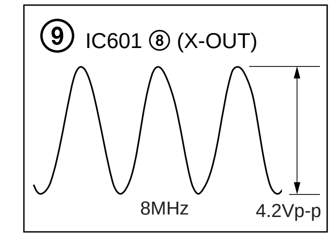
- : parts extracted from the component side.
- ○ : Through hole.
- △ : internal component.
- : Pattern from the side which enables seeing.

• WAVEFORM

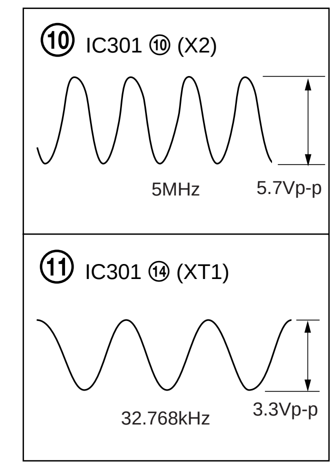
– BD SECTION –



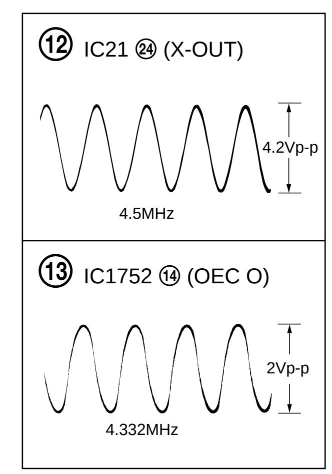
– PANEL SECTION –



– MAIN SECTION –



– TUNER SECTION –



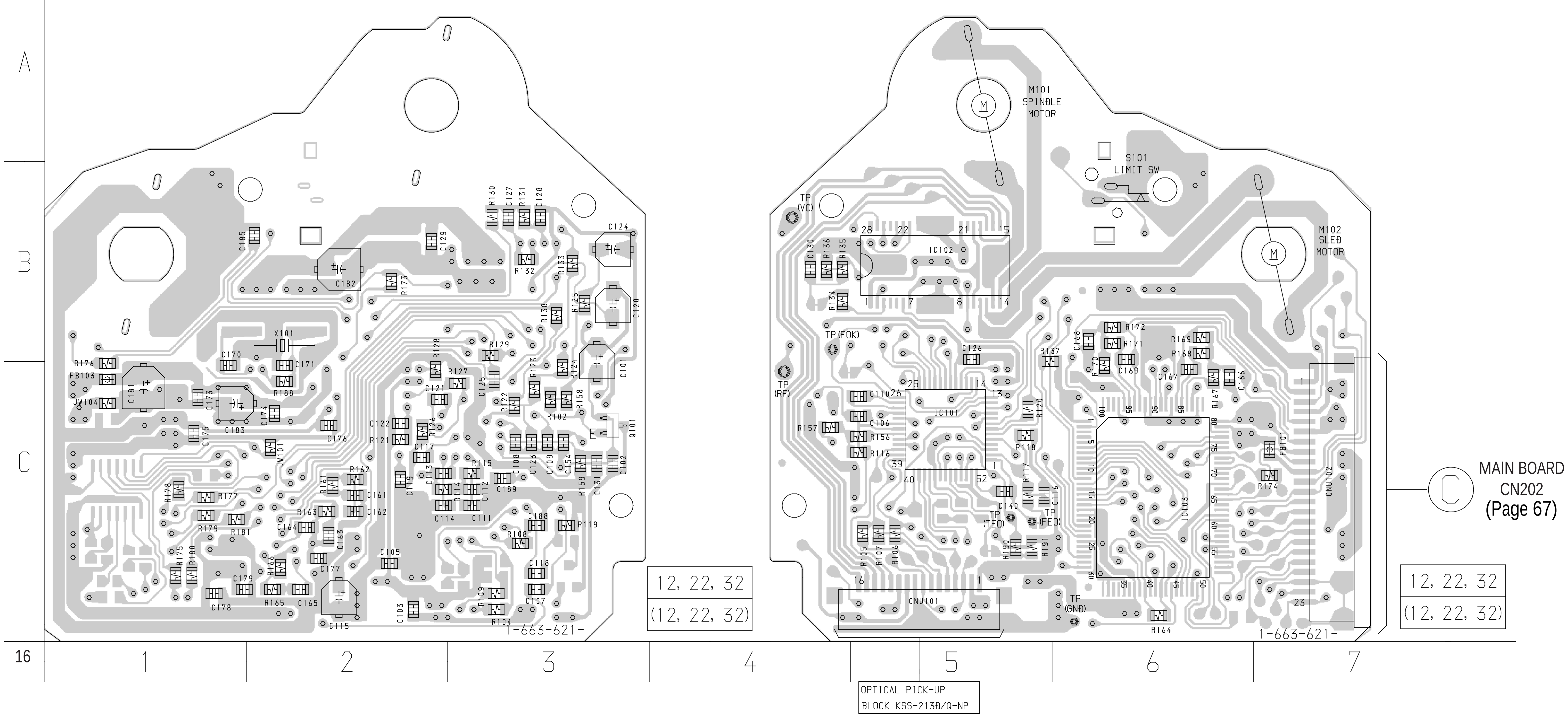
6-3. PRINTED WIRING BOARD – BD SECTION –

• See page 25 for Circuit Boards Location.

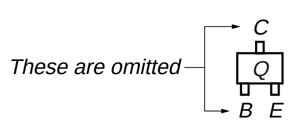
• **Semiconductor Location**

Ref. No.	Location
IC101	C-5
IC102	B-5
IC103	C-6
Q101	C-3

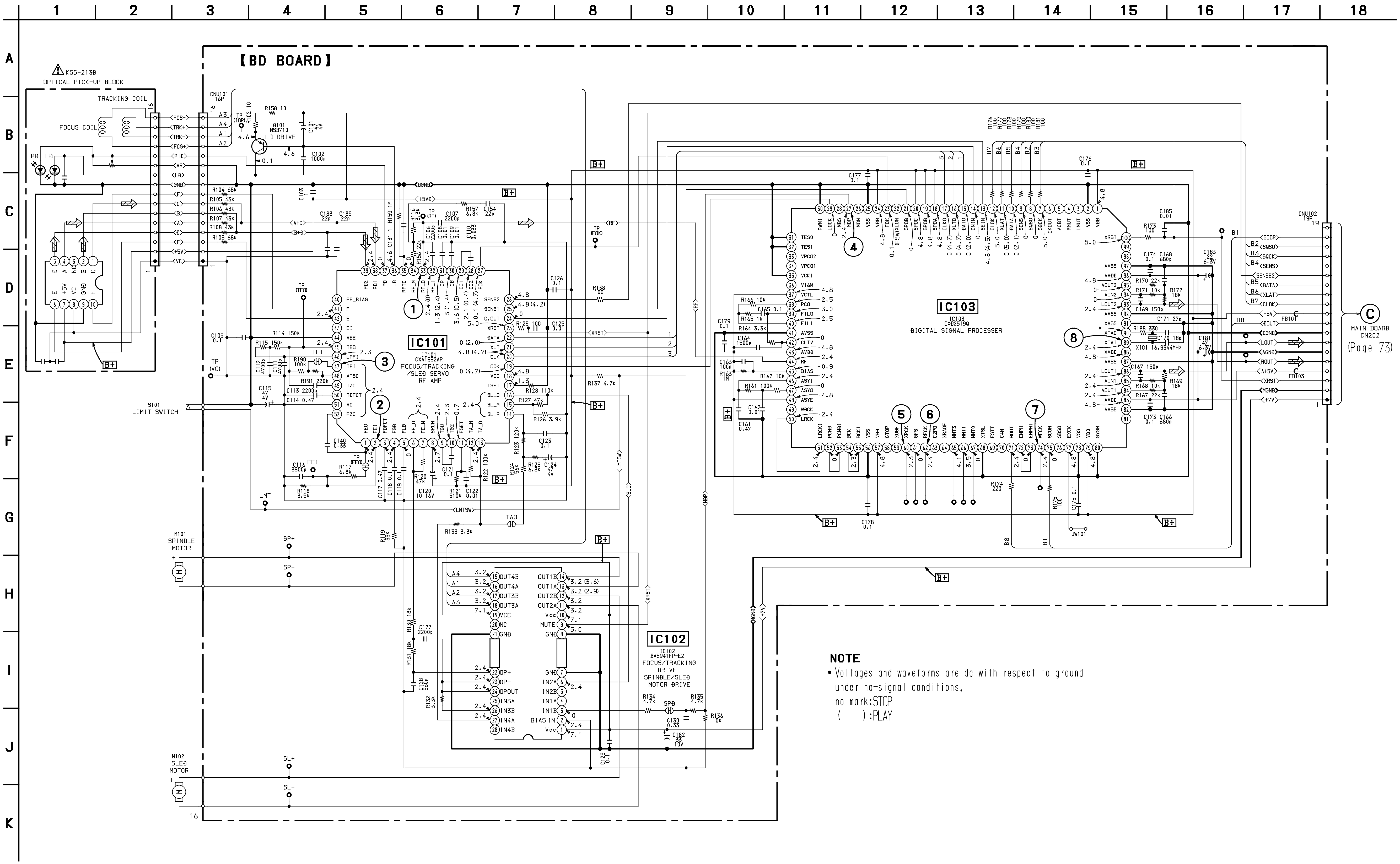
【BD BOARD】 (Component Side)　　【BD BOARD】 (Conductor Side)



• **Indication of transistor**



6-4. SCHEMATIC DIAGRAM – BD SECTION – • See page 34 for Waveforms. • See page 79 for IC Block Diagrams.



NOTE

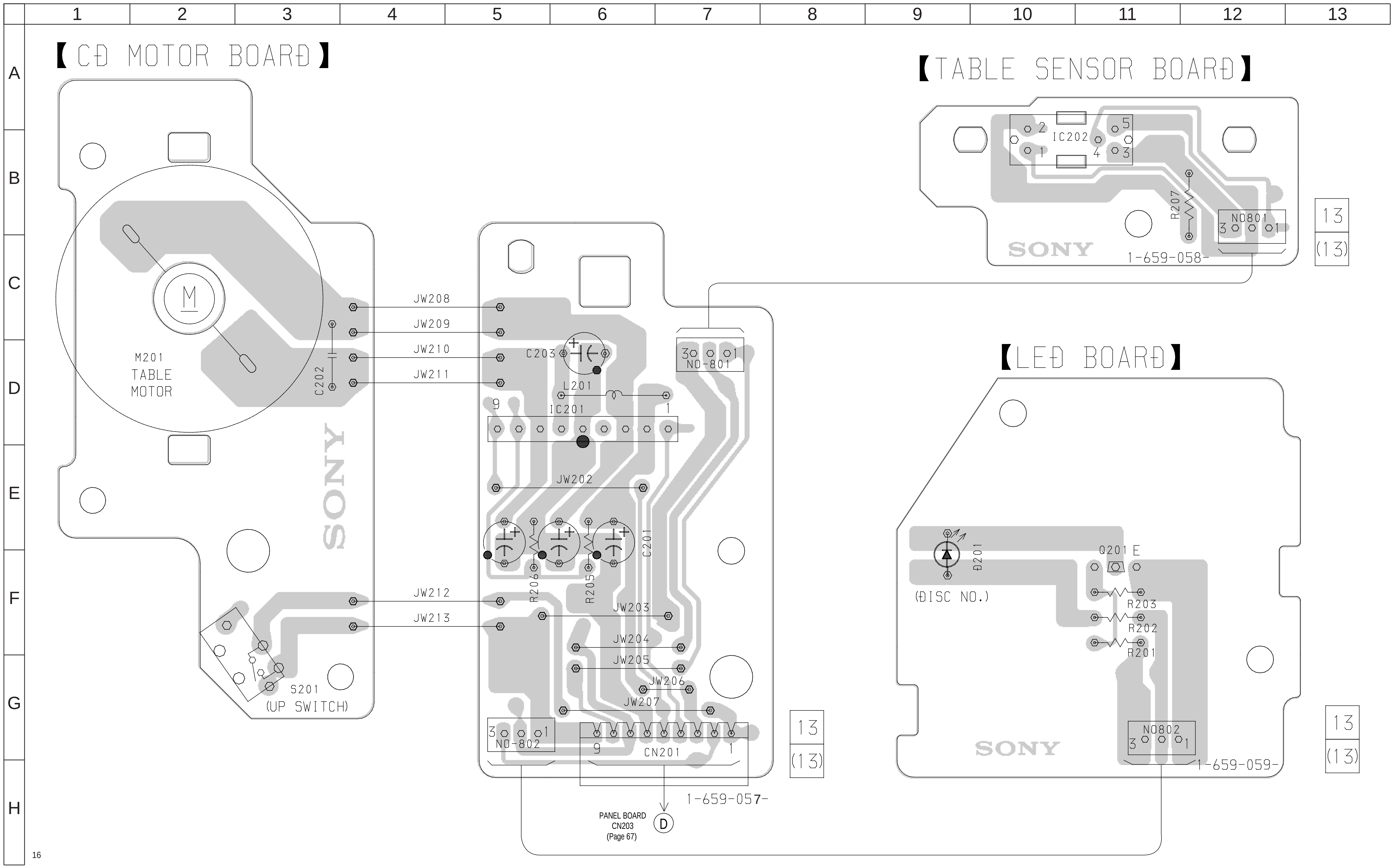
- Voltages and waveforms are dc with respect to ground under no-signal conditions.

  no mark: STOP

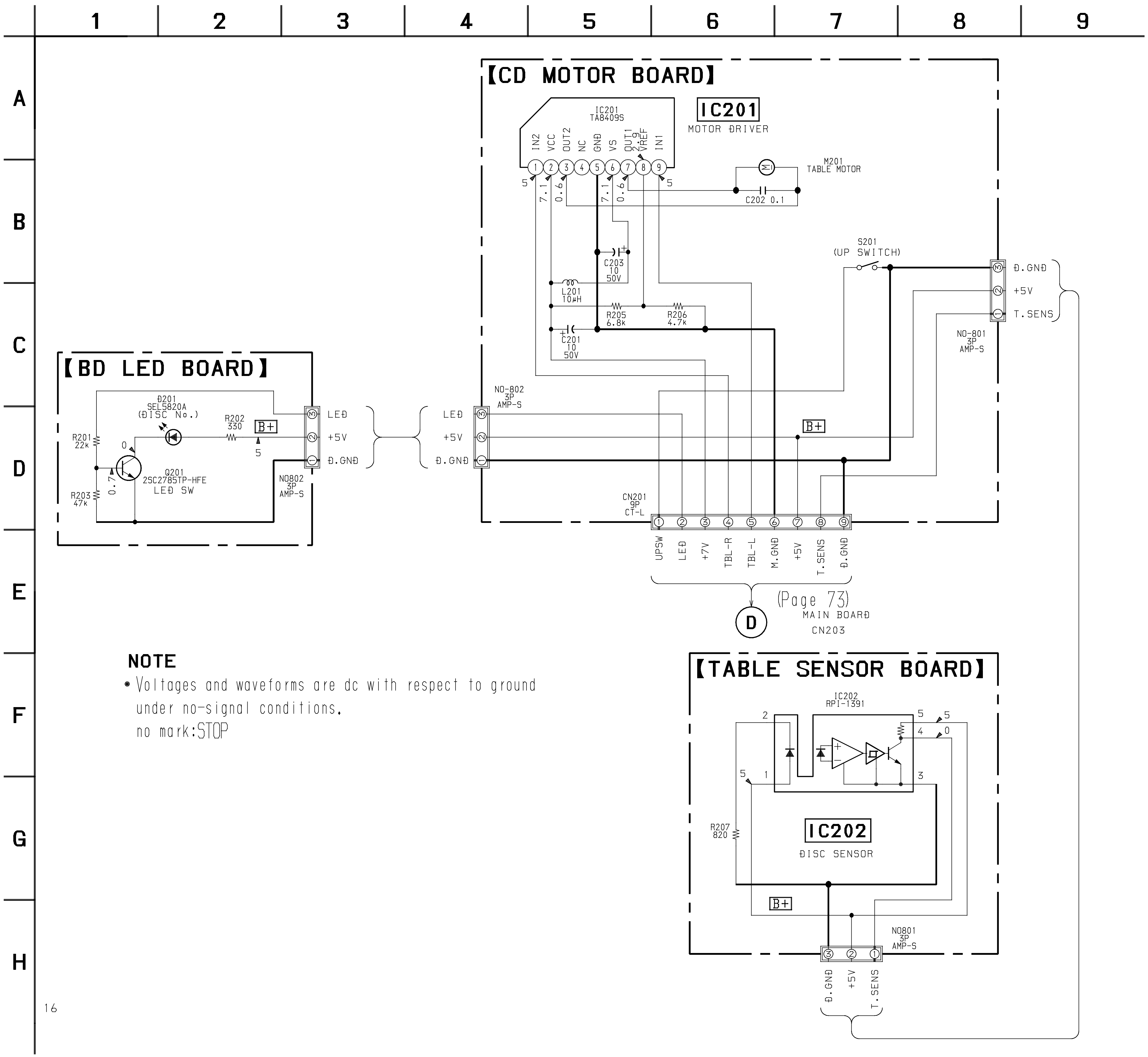
  ( ) : PLAY

6-5. PRINTED WIRING BOARD – CD MOTOR SECTION –

• See page 25 for Circuit Boards Location.



6-6. SCHEMATIC DIAGRAM – CD MOTOR SECTION –

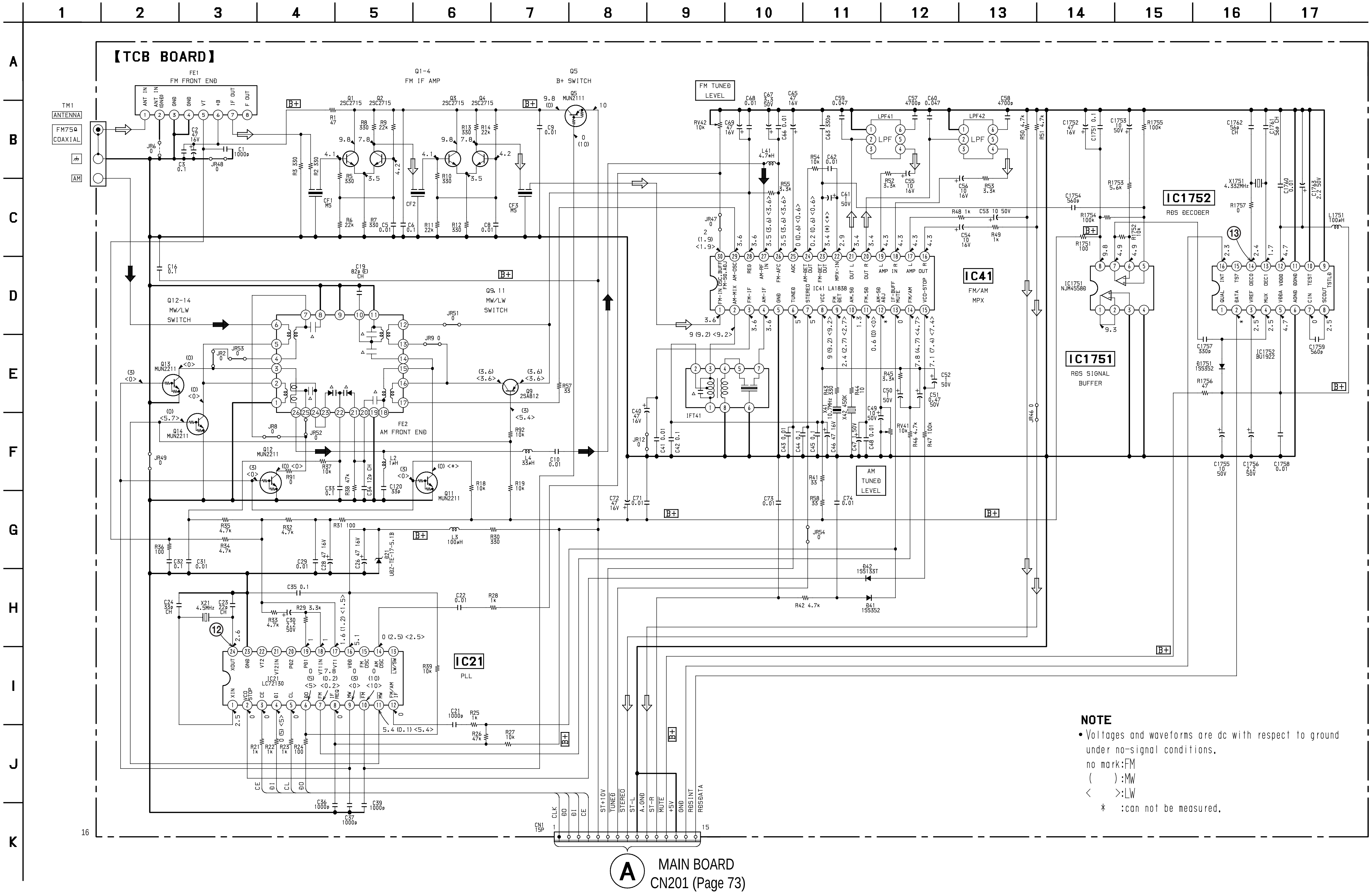


NOTE

- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark:STOP

6-7. SCHEMATIC DIAGRAM – TUNER SECTION – (AEP, UK model)

• See page 34 for Waveforms. • See page 83 for IC Block Diagrams.



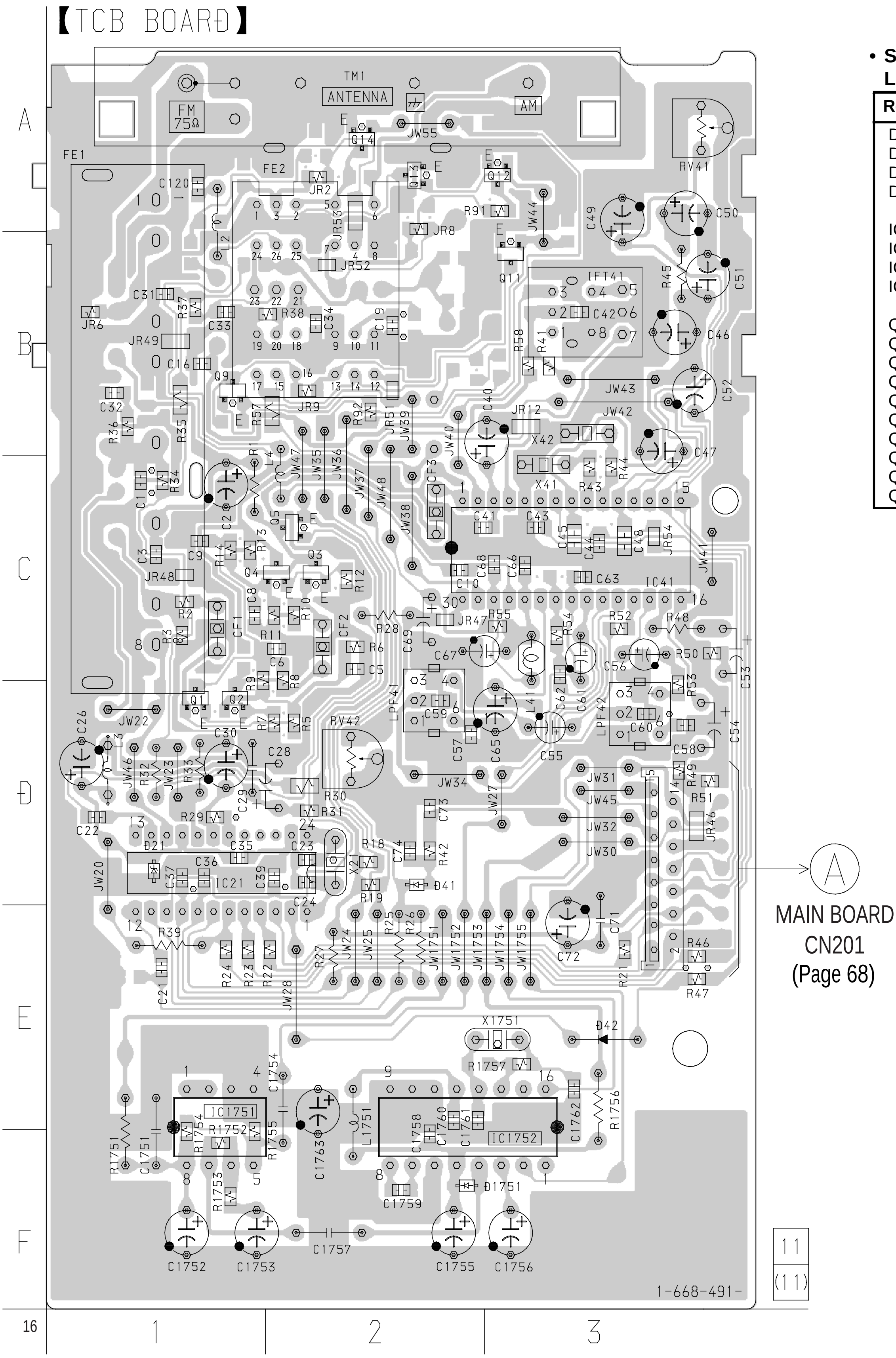
A MAIN BOARD CN201 (Page 73)

NOTE

- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  - no mark: FM
  - ( ) : MW
  - < > : LW
  - * : can not be measured.

6-8. PRINTED WIRING BOARD – TUNER SECTION (AEP, UK Model) –

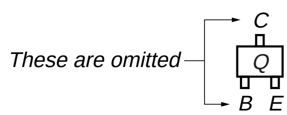
• See page 25 for Circuit Boards Location.



• Semiconductor Location

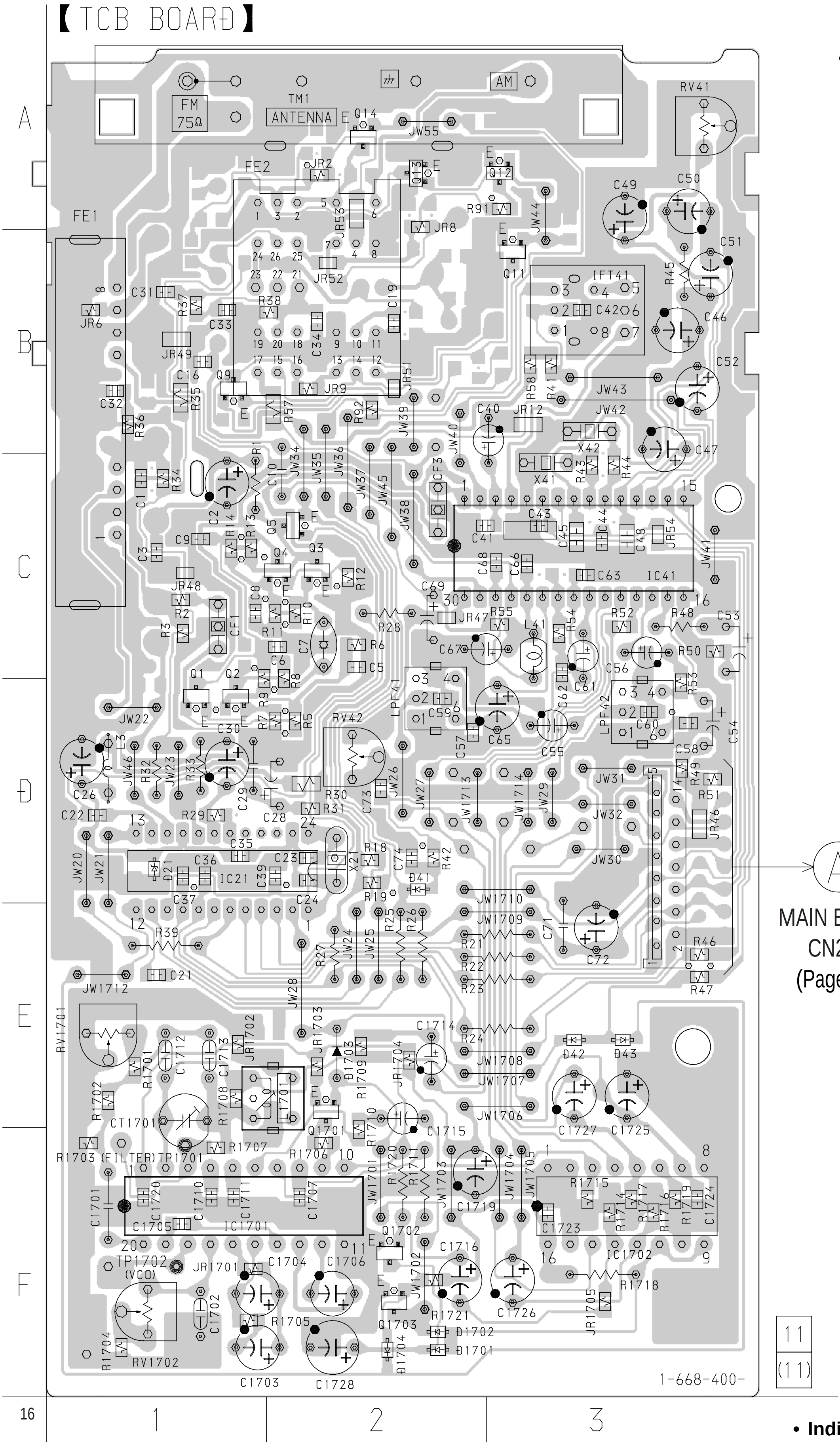
Ref. No.	Location
D21	D-1
D41	D-2
D42	E-3
D1751	F-2
IC21	D-1
IC41	C-3
IC1751	E-1
IC1752	F-3
Q1	D-1
Q2	D-1
Q3	C-2
Q4	C-2
Q5	C-2
Q9	B-1
Q11	B-3
Q12	A-3
Q13	A-2
Q14	A-2

• Indication of transistor



6-9. PRINTED WIRING BOARD – TUNER SECTION (East European, CIS Model) –

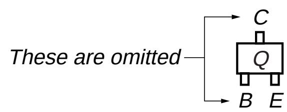
• See page 25 for Circuit Boards Location.



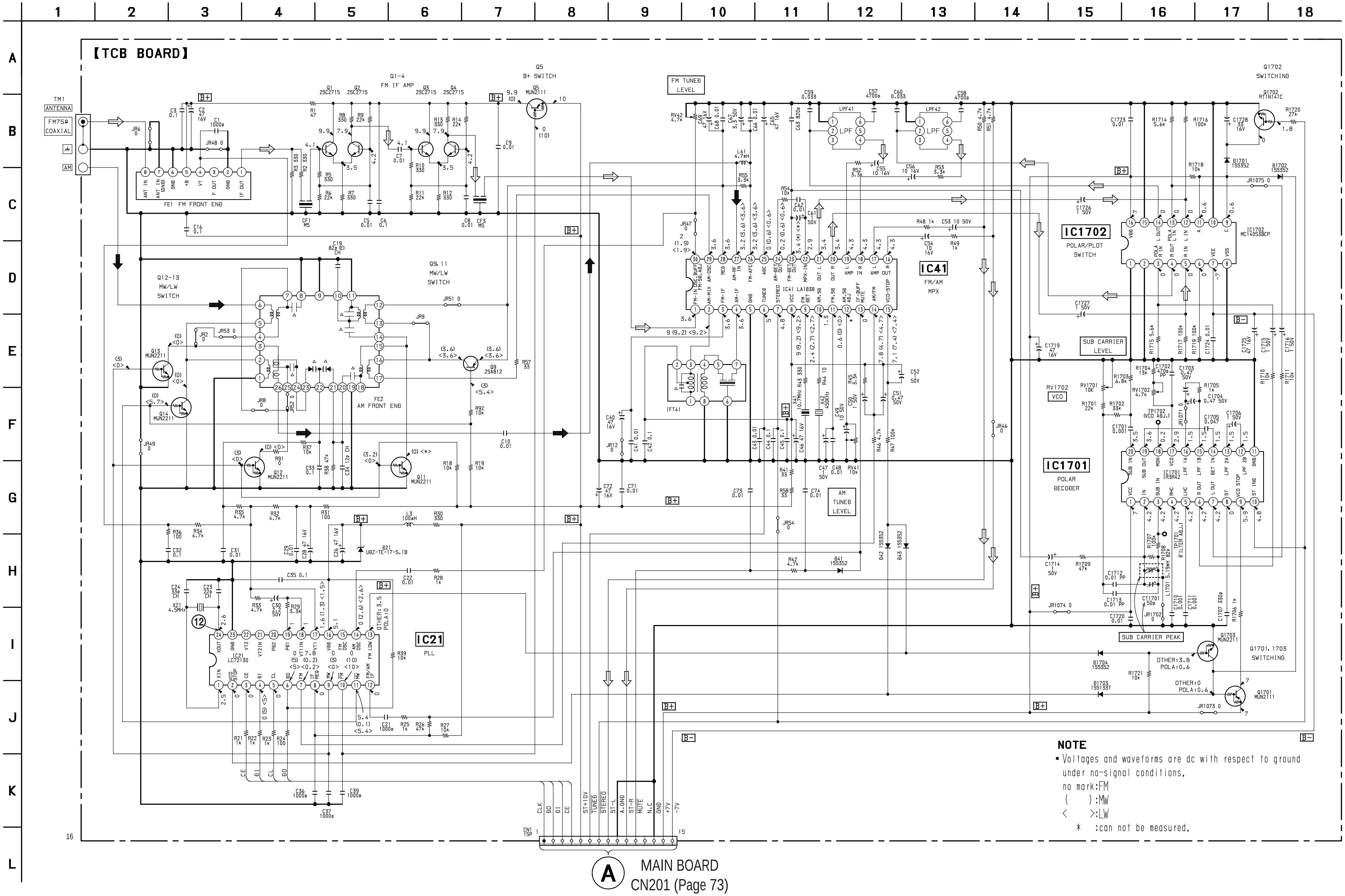
• **Semiconductor Location**

Ref. No.	Location
D1	D-1
D41	D-2
D42	E-3
D43	E-3
D1701	F-2
D1702	F-2
D1703	E-2
D1704	F-2
IC21	D-1
IC41	C-3
IC1701	F-1
IC1702	F-3
Q1	D-1
Q2	D-1
Q3	C-2
Q4	C-2
Q5	C-2
Q9	B-1
Q11	B-3
Q12	A-3
Q13	A-2
Q14	A-2
Q1701	E-2
Q1702	F-2
Q1703	F-2

• **Indication of transistor**



6-10. SCHEMATIC DIAGRAM – TUNER SECTION – (East European, CIS model) • See page 34 for Waveforms. • See page 83 for IC Block Diagrams.

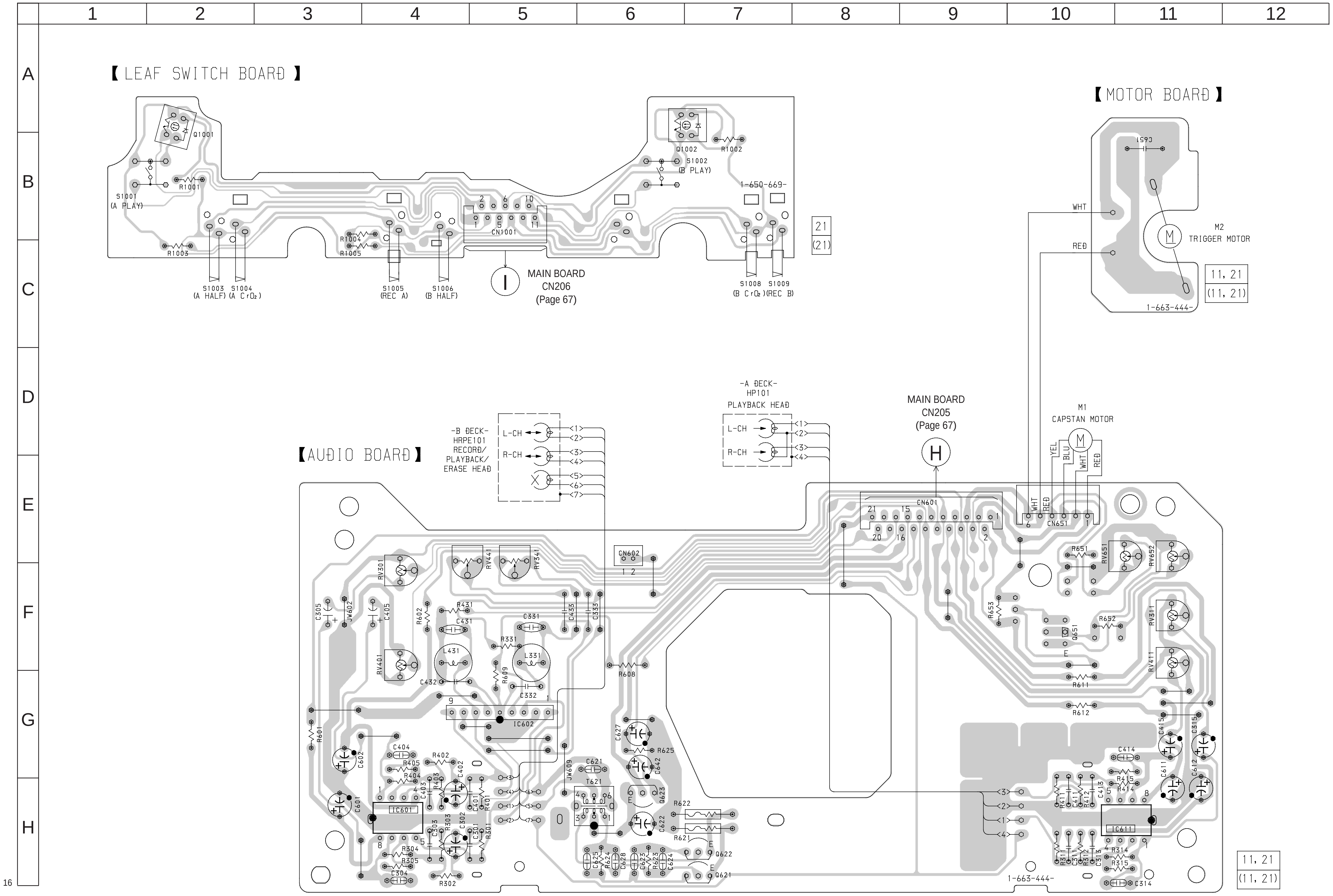


6-11. PRINTED WIRING BOARD – DECK SECTION –

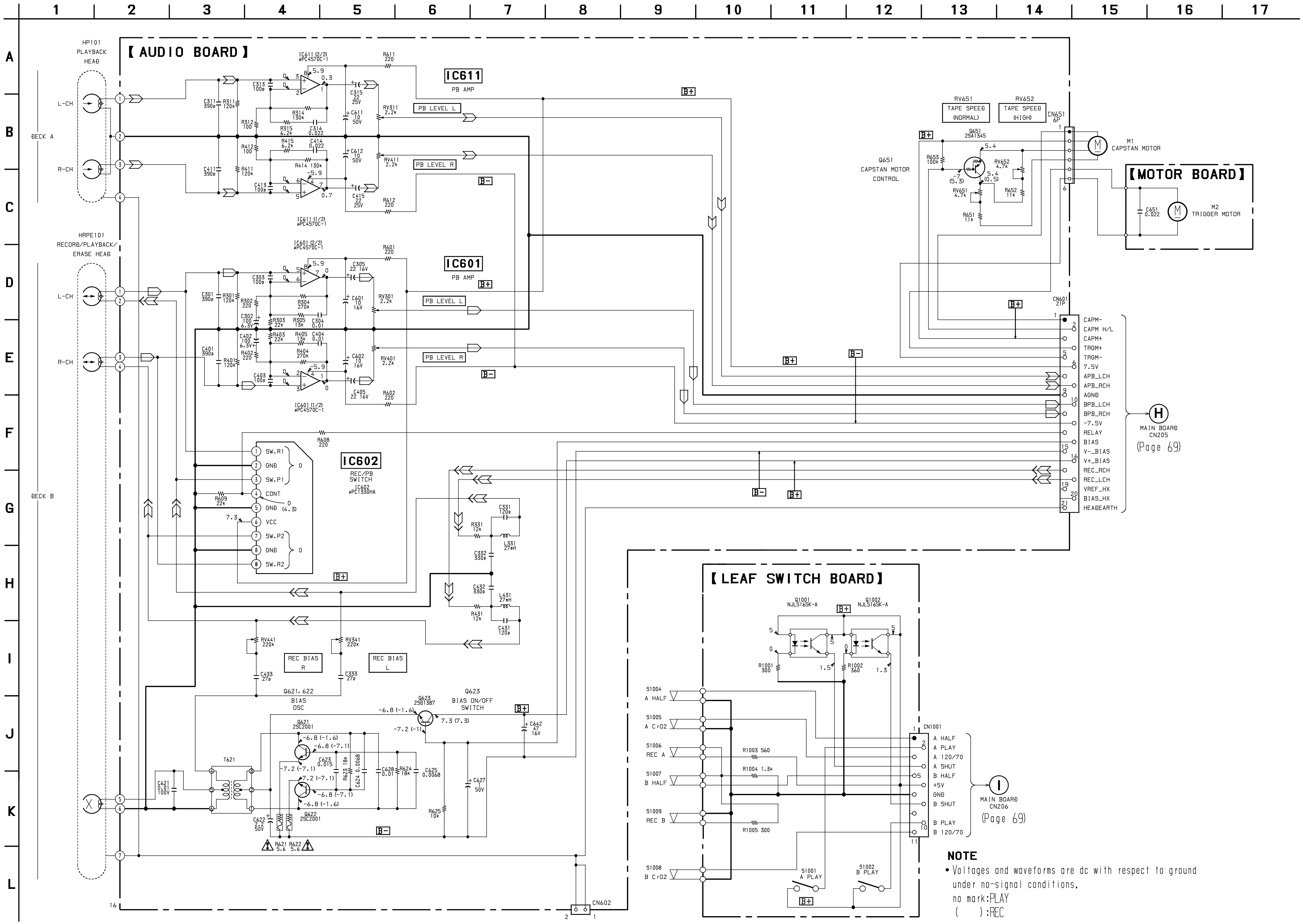
• See page 25 for Circuit Boards Location.

• Semiconductor Location

Ref. No.	Location
IC601	H-4
IC602	G-5
IC611	H-11
Q621	H-7
Q622	H-7
Q623	H-6
Q651	F-10
Q1001	A-2
Q1002	A-7



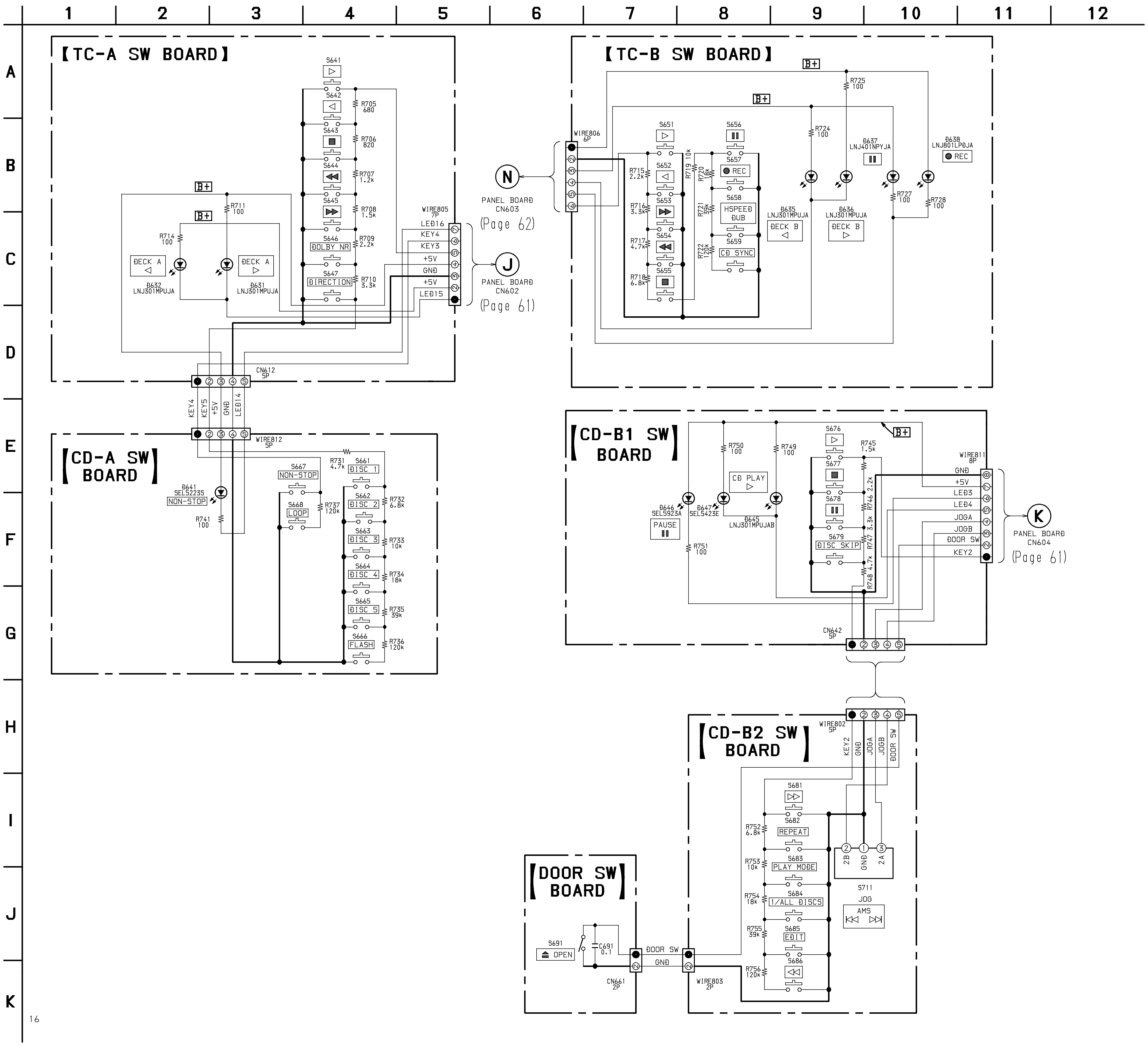
6-12. SCHEMATIC DIAGRAM – DECK SECTION –



NOTE

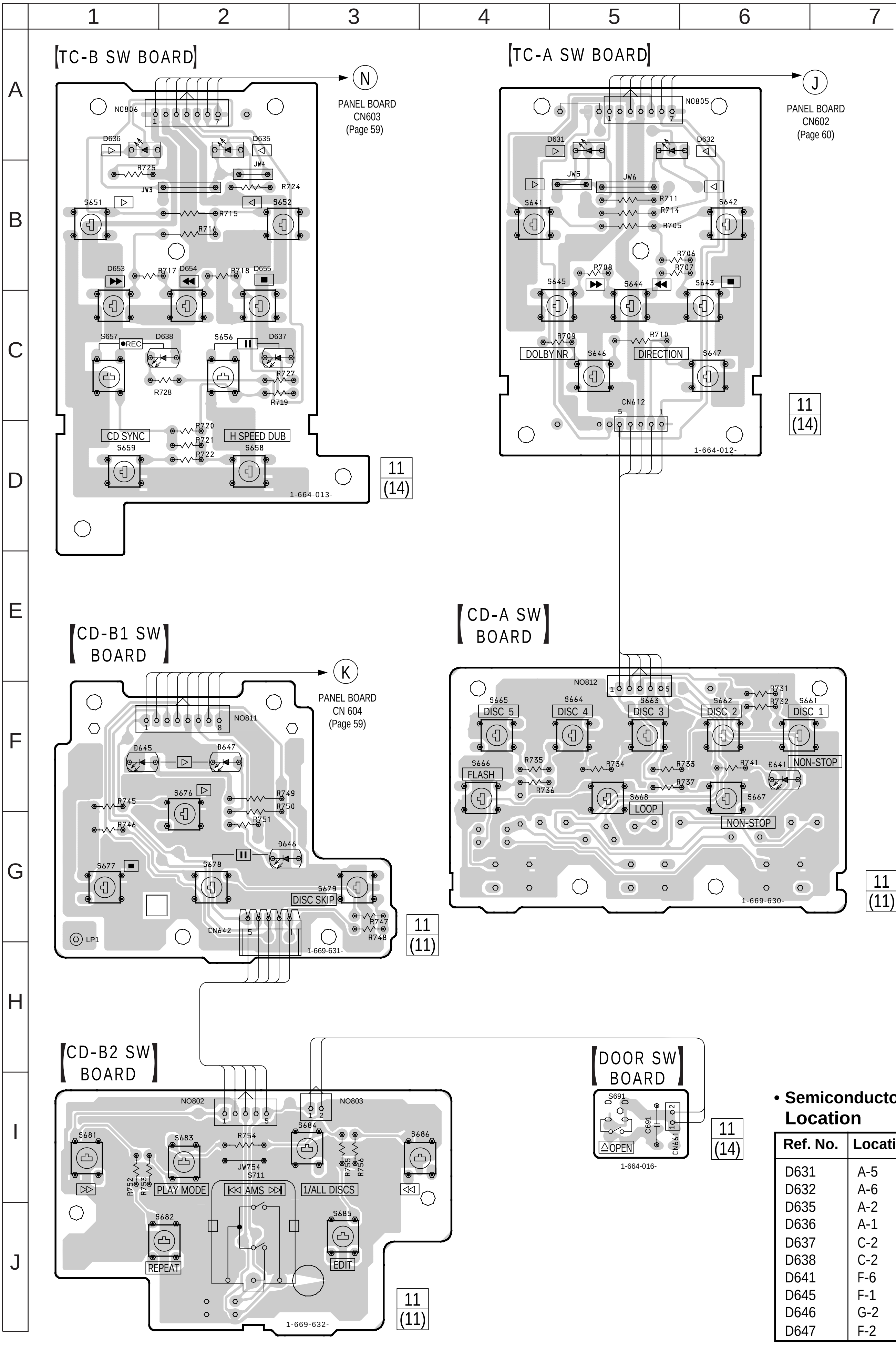
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark:PLAY
  ( ):REC

6-13. SCHEMATIC DIAGRAM – SWITCH SECTION –



6-14. PRINTED WIRING BOARD – SWITCH SECTION –

• See page 25 for Circuit Boards Location.



16

• Semiconductor Location

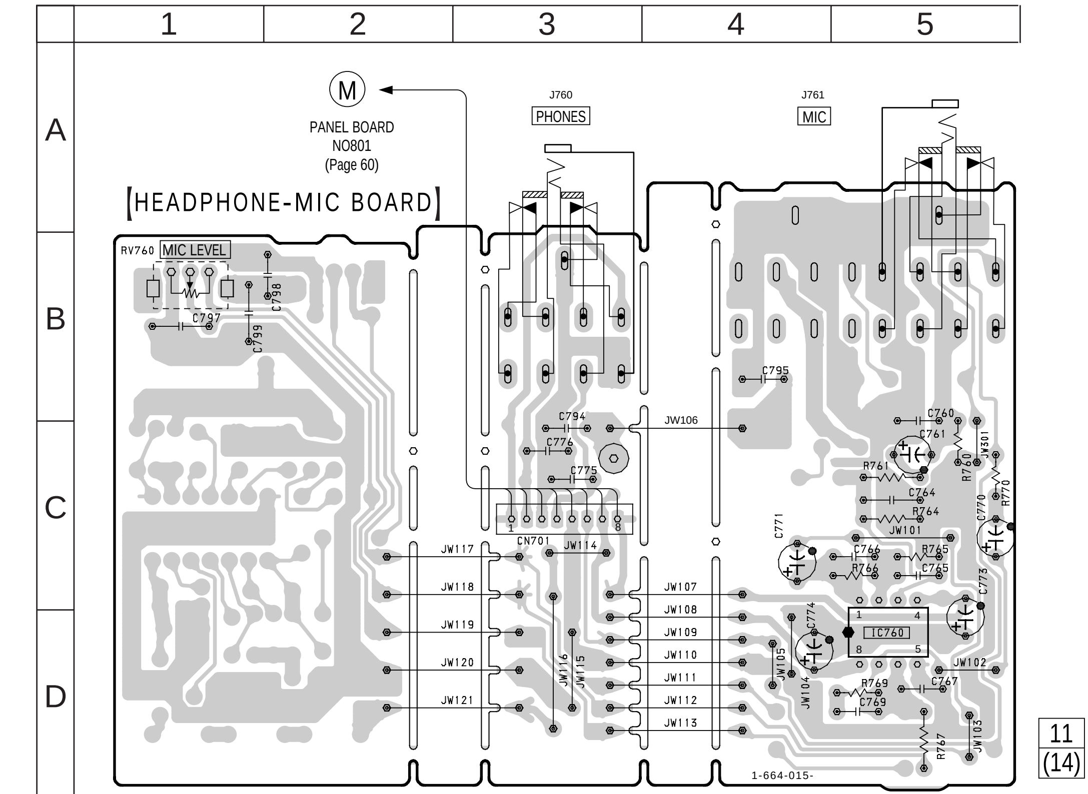
Ref. No.	Location
D631	A-5
D632	A-6
D635	A-2
D636	A-1
D637	C-2
D638	C-2
D641	F-6
D645	F-1
D646	G-2
D647	F-2

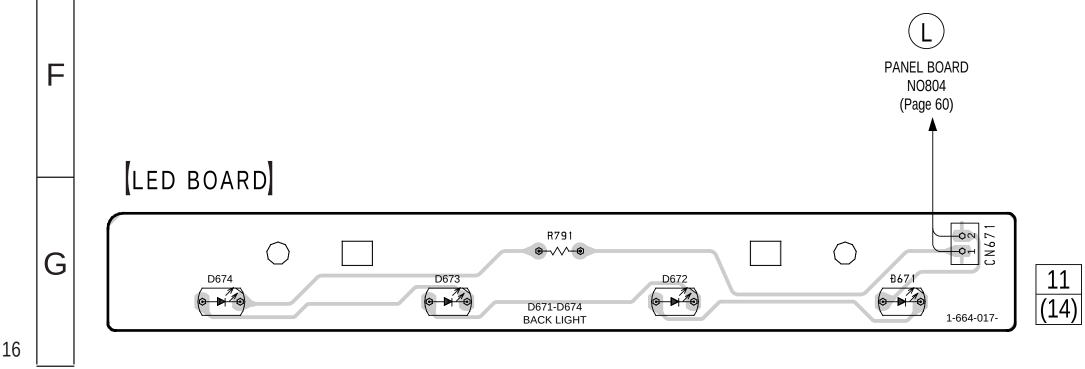
6-15. PRINTED WIRING BOARD – HEADPHONE-MIC SECTION –

• See page 25 for Circuit Boards Location.

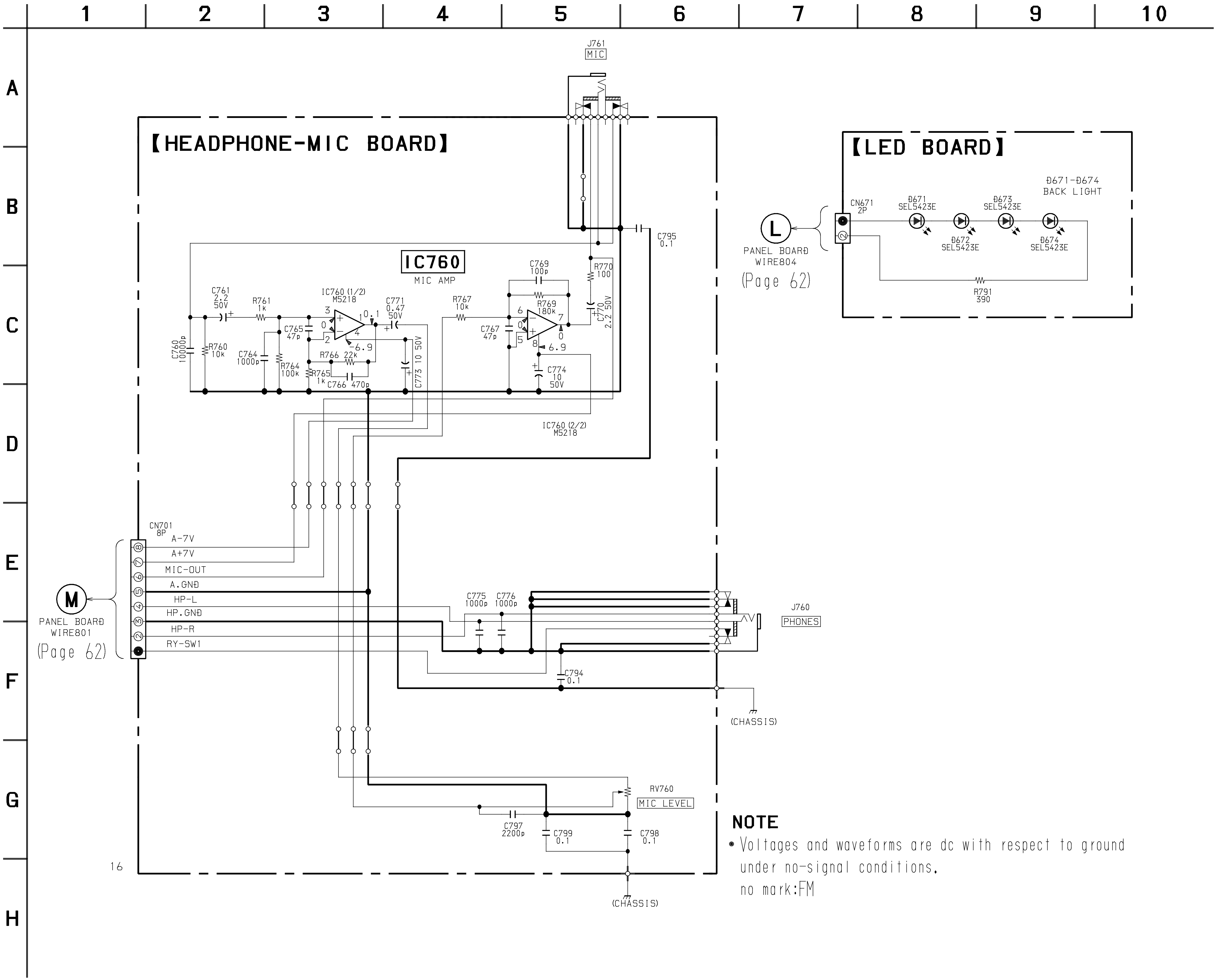
• Semiconductor Location

Ref. No.	Location
D671	G-5
D672	G-4
D673	G-2
D674	G-1
IC760	D-5





6-16. SCHEMATIC DIAGRAM – HEADPHONE-MIC SECTION –

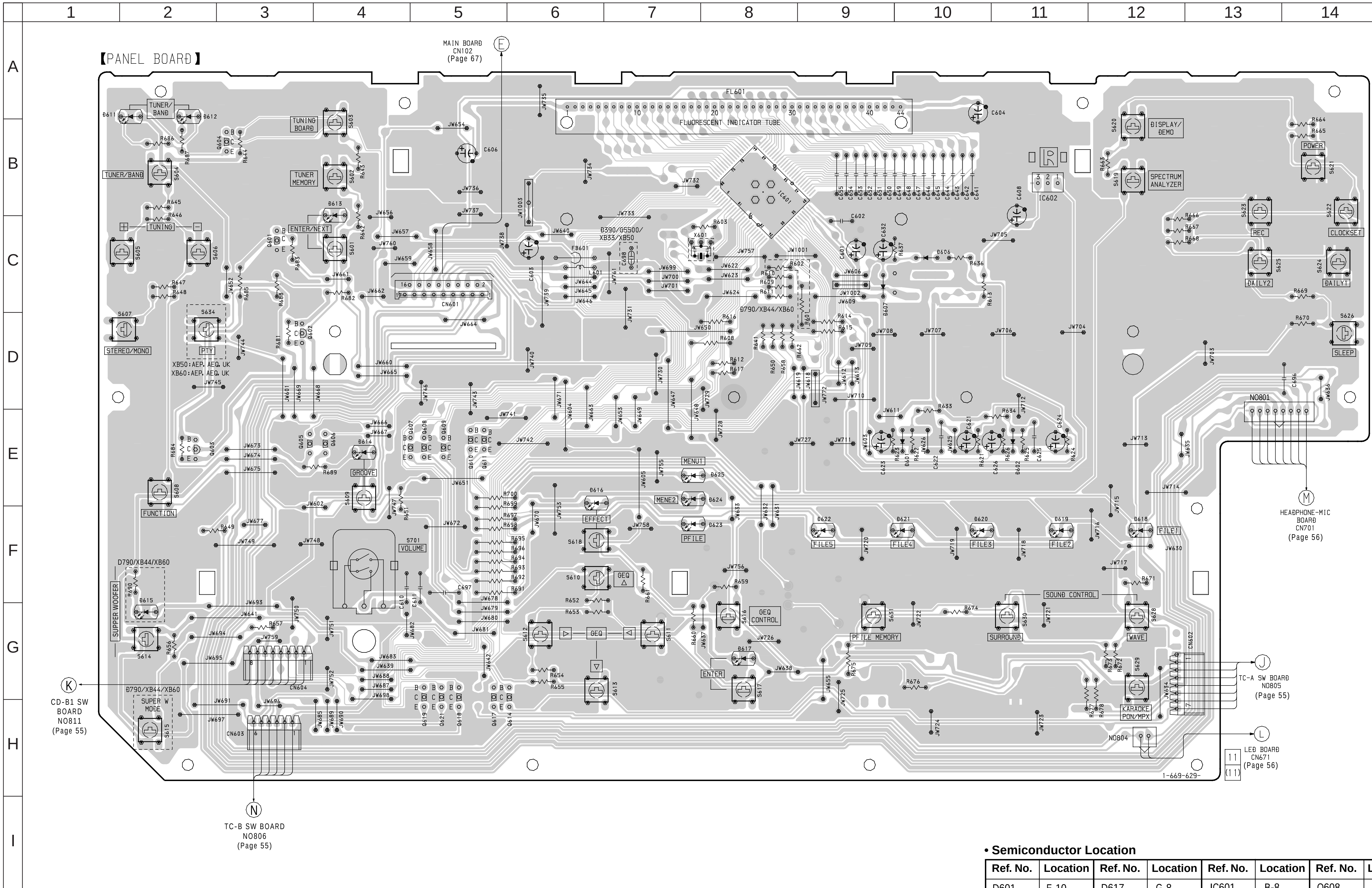


NOTE

- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark:FM

6-17. PRINTED WIRING BOARD – PANEL SECTION –

• See page 25 for Circuit Boards Location.

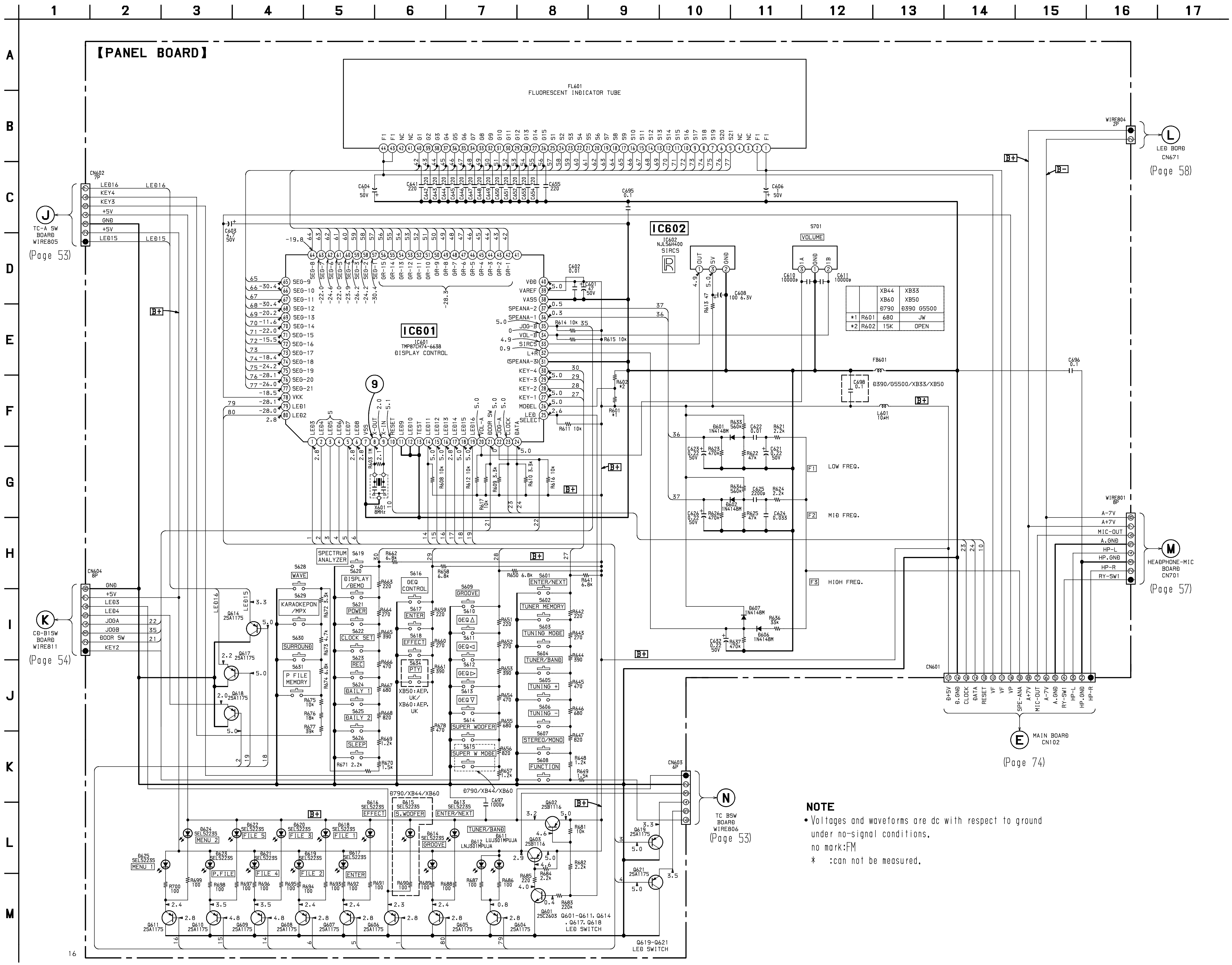


• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D601	E-10	D617	G-8	IC601	B-8	Q608	E-5
D602	E-11	D618	F-12	IC602	B-11	Q609	E-5
D606	C-10	D619	F-11			Q610	E-5
D607	C-9	D620	F-10	Q601	B-8	Q611	E-5
D611	A-2	D621	F-10	Q602	D-3	Q614	G-5
D612	A-2	D622	F-9	Q603	E-2	Q617	G-5
D613	C-4	D623	F-7	Q604	B-3	Q618	G-5
D614	E-4	D624	E-7	Q605	E-3	Q619	G-5
D615	G-2	D625	E-7	Q606	E-4	Q621	G-5
D616	E-6			Q607	E-4		

6-18. SCHEMATIC DIAGRAM – PANEL SECTION –

• See page 34 for Waveforms. • See page 86 for IC Pin Functions.

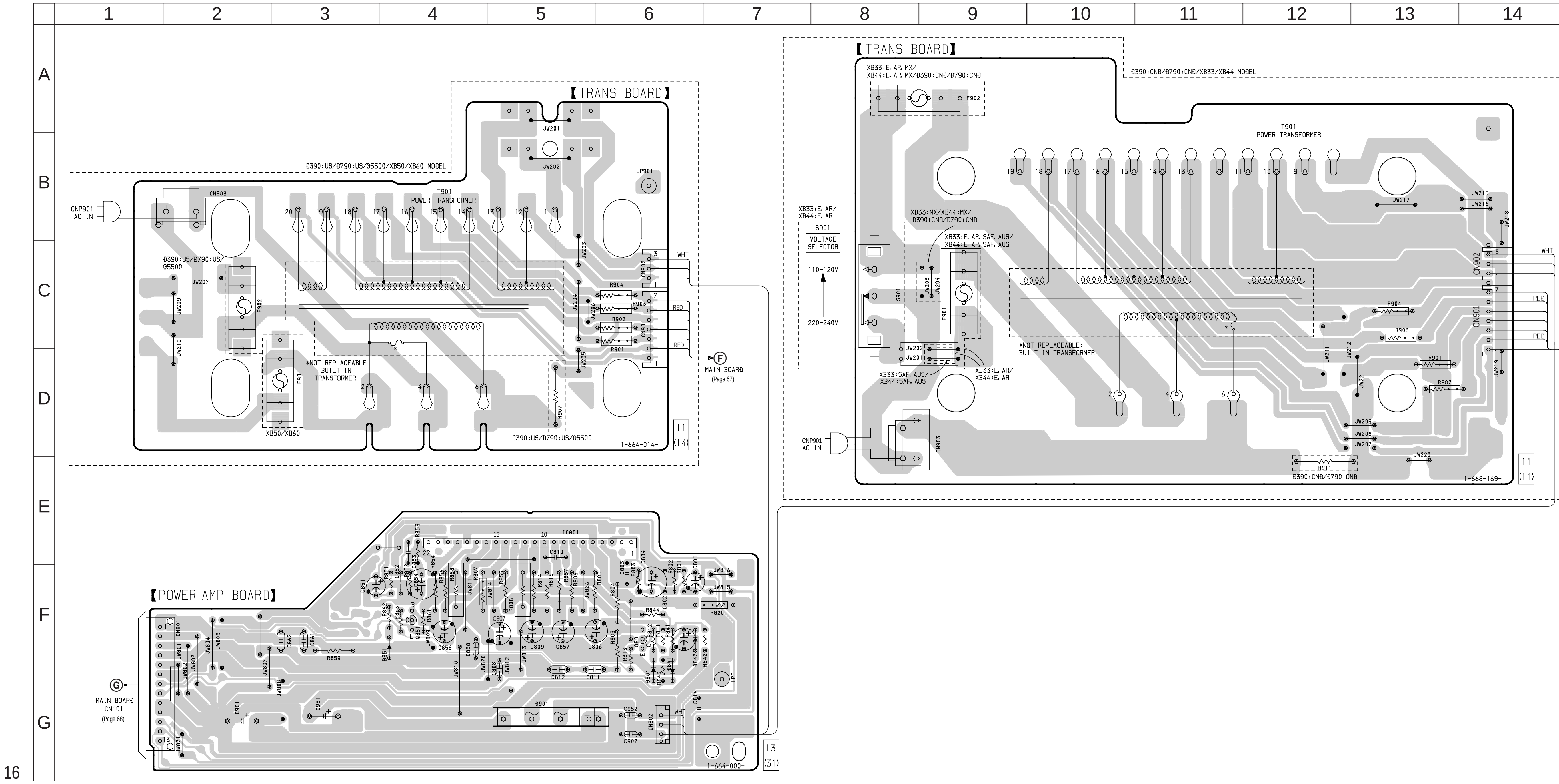


NOTE

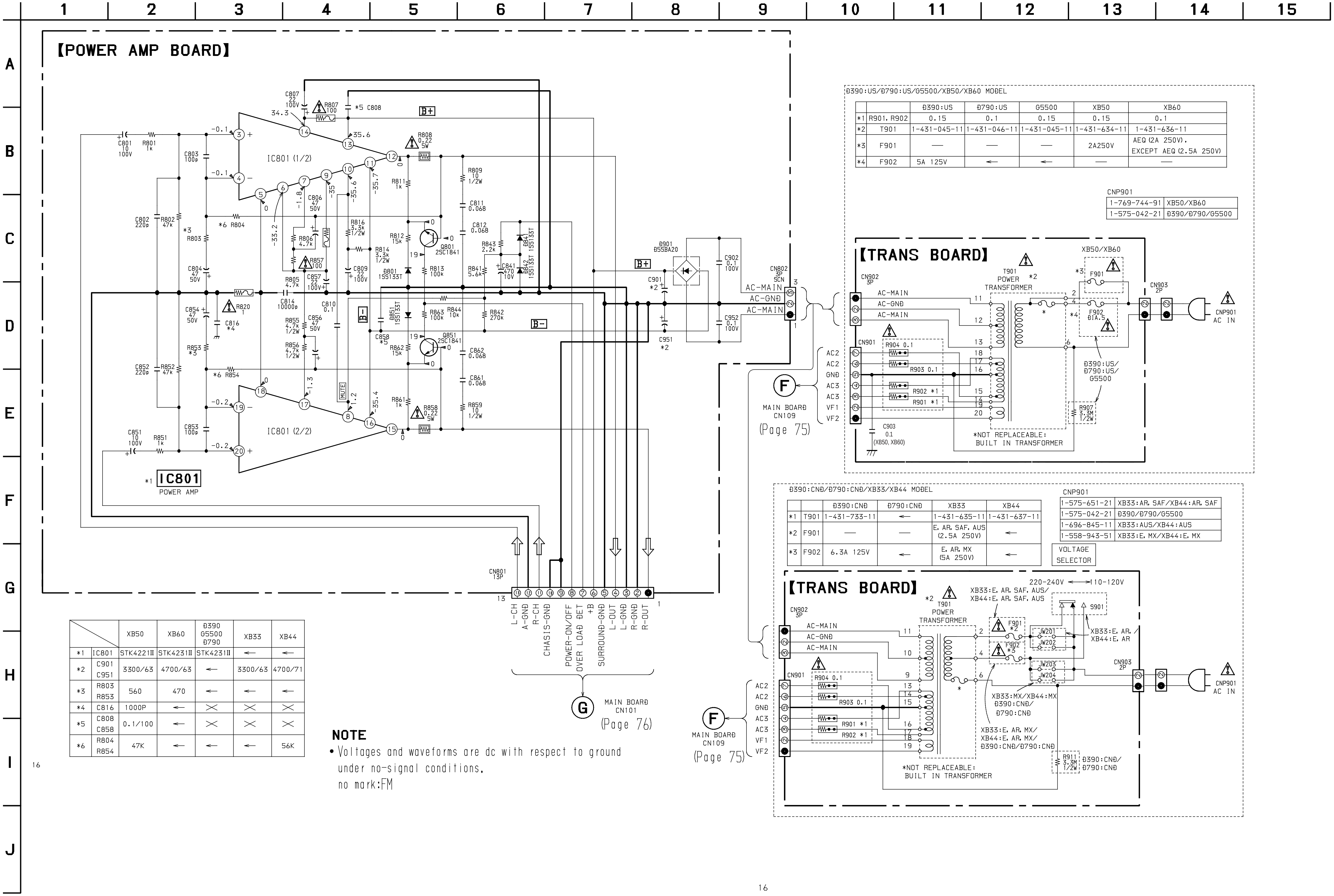
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark:FM
  * :can not be measured.

6-19. PRINTED WIRING BOARD – POWER SECTION –

• See page 25 for Circuit Boards Location.



6-20. SCHEMATIC DIAGRAM – POWER SECTION –



D390:US/D790:US/G5500/XB50/XB60 MODEL

		D390:US	D790:US	G5500	XB50	XB60
*1	R901, R902	0.15	0.1	0.15	0.15	0.1
*2	T901	1-431-045-11	1-431-046-11	1-431-045-11	1-431-634-11	1-431-636-11
*3	F901	—	—	—	2A250V	AEQ (2A 250V), EXCEPT AEQ (2.5A 250V)
*4	F902	5A 125V	←	←	—	—

CNP901

1-769-744-91	XB50/XB60
1-575-042-21	D390/D790/G5500

D390:CND/D790:CND/XB33/XB44 MODEL

		D390:CND	D790:CND	XB33	XB44
*1	T901	1-431-733-11	←	1-431-635-11	1-431-637-11
*2	F901	—	—	E, AR, SAF, AUS (2.5A 250V)	←
*3	F902	6.3A 125V	←	E, AR, MX (5A 250V)	←

CNP901

1-575-651-21	XB33:AR, SAF/XB44:AR, SAF
1-575-042-21	D390/D790/G5500
1-696-845-11	XB33:AUS/XB44:AUS
1-558-943-51	XB33:E, MX/XB44:E, MX

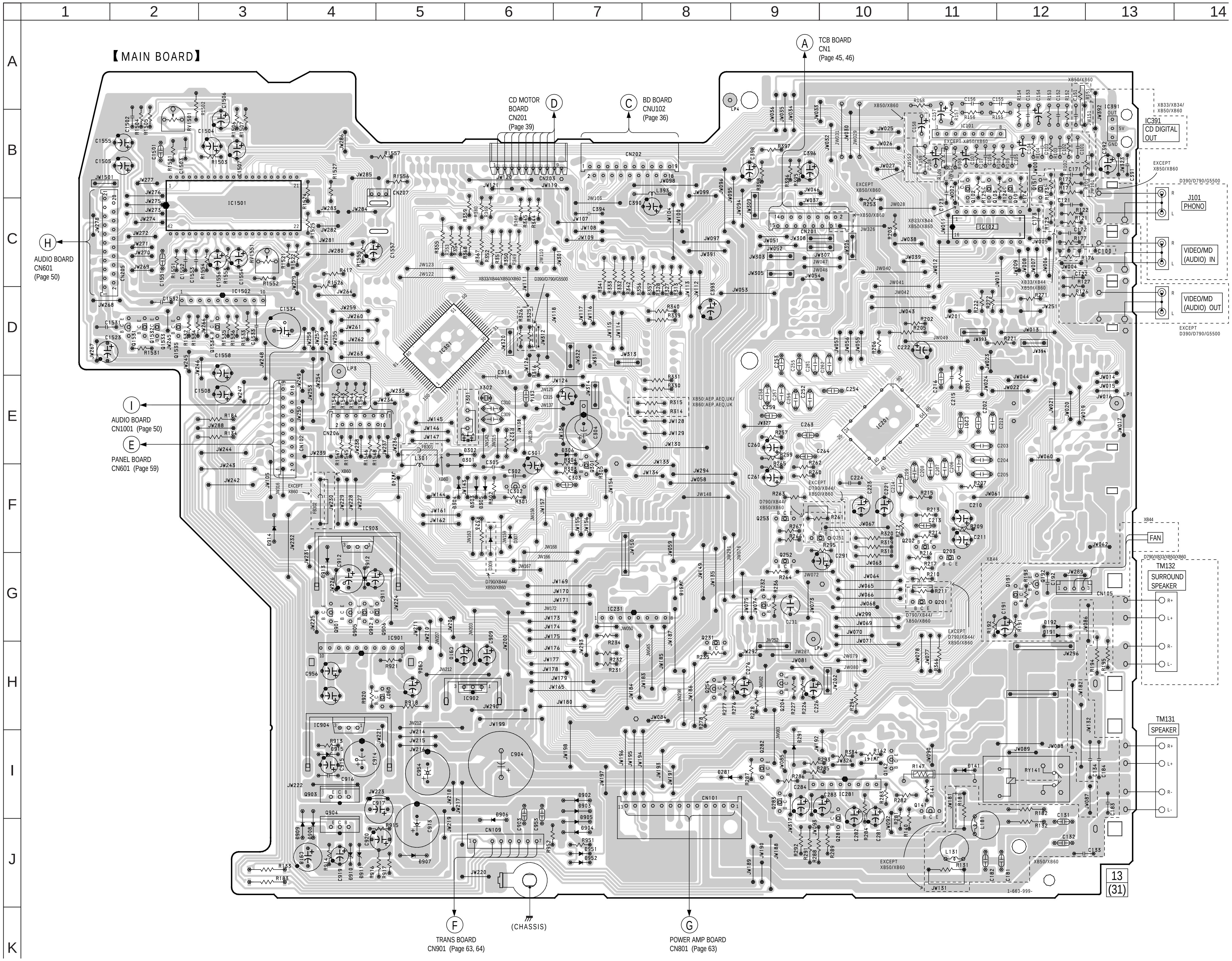
VOLTAGE SELECTOR

		XB50	XB60	D390 G5500 D790	XB33	XB44
*1	IC801	STK4221II	STK4231II	STK4231II	←	←
*2	C901 C951	3300/63	4700/63	←	3300/63	4700/71
*3	R803 R853	560	470	←	←	←
*4	C816	1000P	←	X	X	X
*5	C808 C858	0.1/100	←	X	X	X
*6	R804 R854	47K	←	←	←	56K

NOTE

- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark:FM

6-21. PRINTED WIRING BOARD – MAIN SECTION – • See page 25 for Circuit Boards Location.



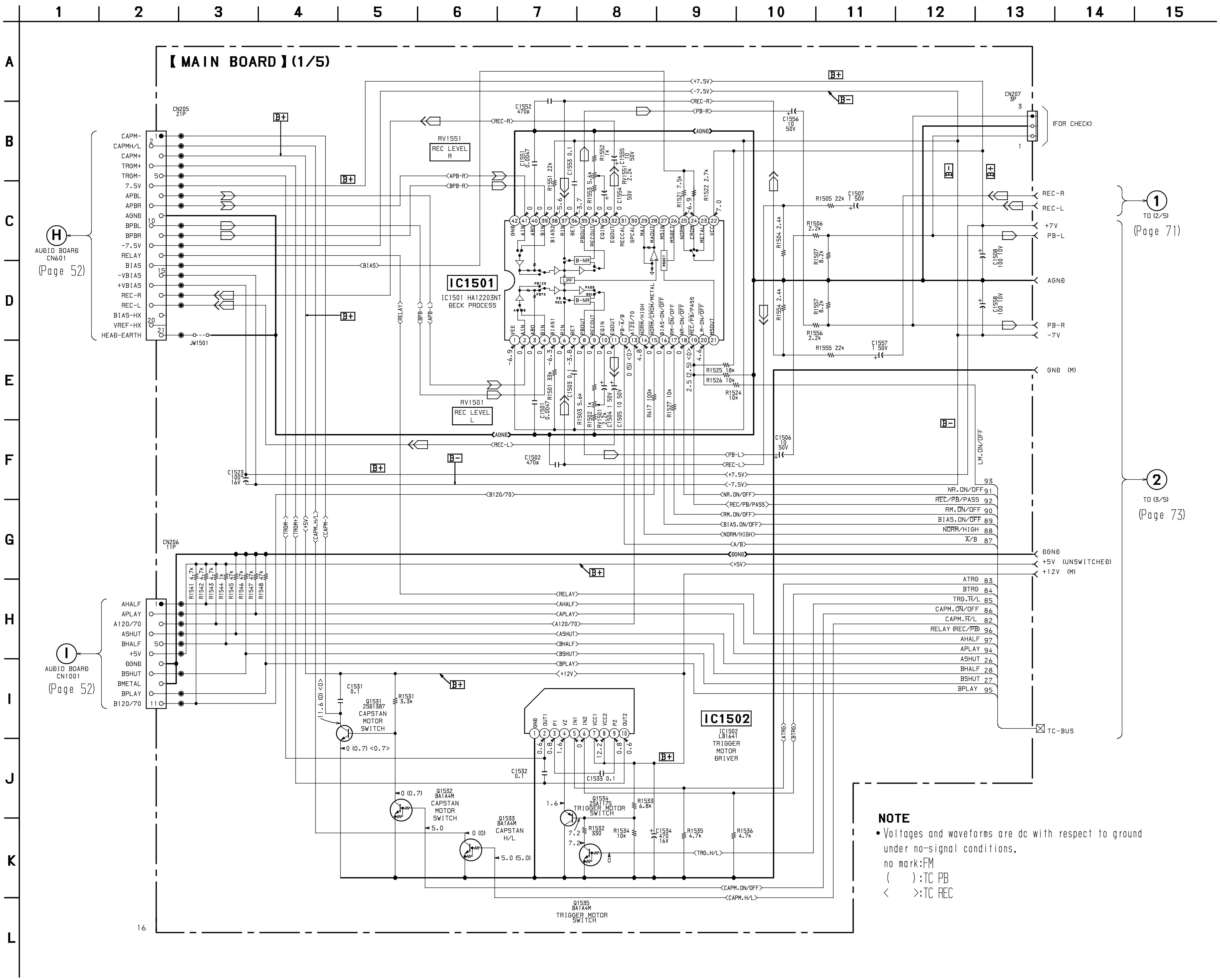
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D141	I-11	IC903	F-4
D191	G-12	IC904	H-4
D192	G-12	IC1501	C-3
D281	I-8	IC1502	D-3
D291	I-9		
D301	E-6	Q101	B-12
D302	E-6	Q102	B-11
D303	F-6	Q103	B-11
D304	F-5	Q141	I-11
D305	F-6	Q142	I-10
D306	E-7	Q151	B-12
D307	F-6	Q191	G-12
D309	F-6	Q192	G-12
D902	I-7	Q201	G-11
D903	I-7	Q202	F-11
D904	J-6	Q203	G-11
D905	J-6	Q204	H-9
D906	J-6	Q231	G-8
D907	J-5	Q232	G-9
D908	J-4	Q251	F-10
D909	J-4	Q252	G-9
D910	J-4	Q253	F-9
D911	J-4	Q254	H-8
D912	G-4	Q281	J-10
D913	G-4	Q282	I-9
D914	F-3	Q283	I-9
D915	I-4	Q301	F-7
D951	J-7	Q901	G-4
D952	J-7	Q902	G-4
		Q903	I-4
IC101	B-11	Q904	J-4
IC102	C-11	Q905	G-4
IC201	E-10	Q906	G-4
IC231	G-7	Q907	H-5
IC281	I-10	Q1531	D-2
IC301	D-5	Q1532	D-2
IC302	F-6	Q1533	D-2
IC391	B-13	Q1534	D-3
IC901	H-4	Q1535	D-2
IC902	H-6		

16

6-22. SCHEMATIC DIAGRAM – MAIN SECTION (1/5) –

• See page 82 for IC Block Diagrams.



NOTE

• Voltages and waveforms are dc with respect to ground under no-signal conditions.

no mark:FM

( ):TC PB

< >:TC REC

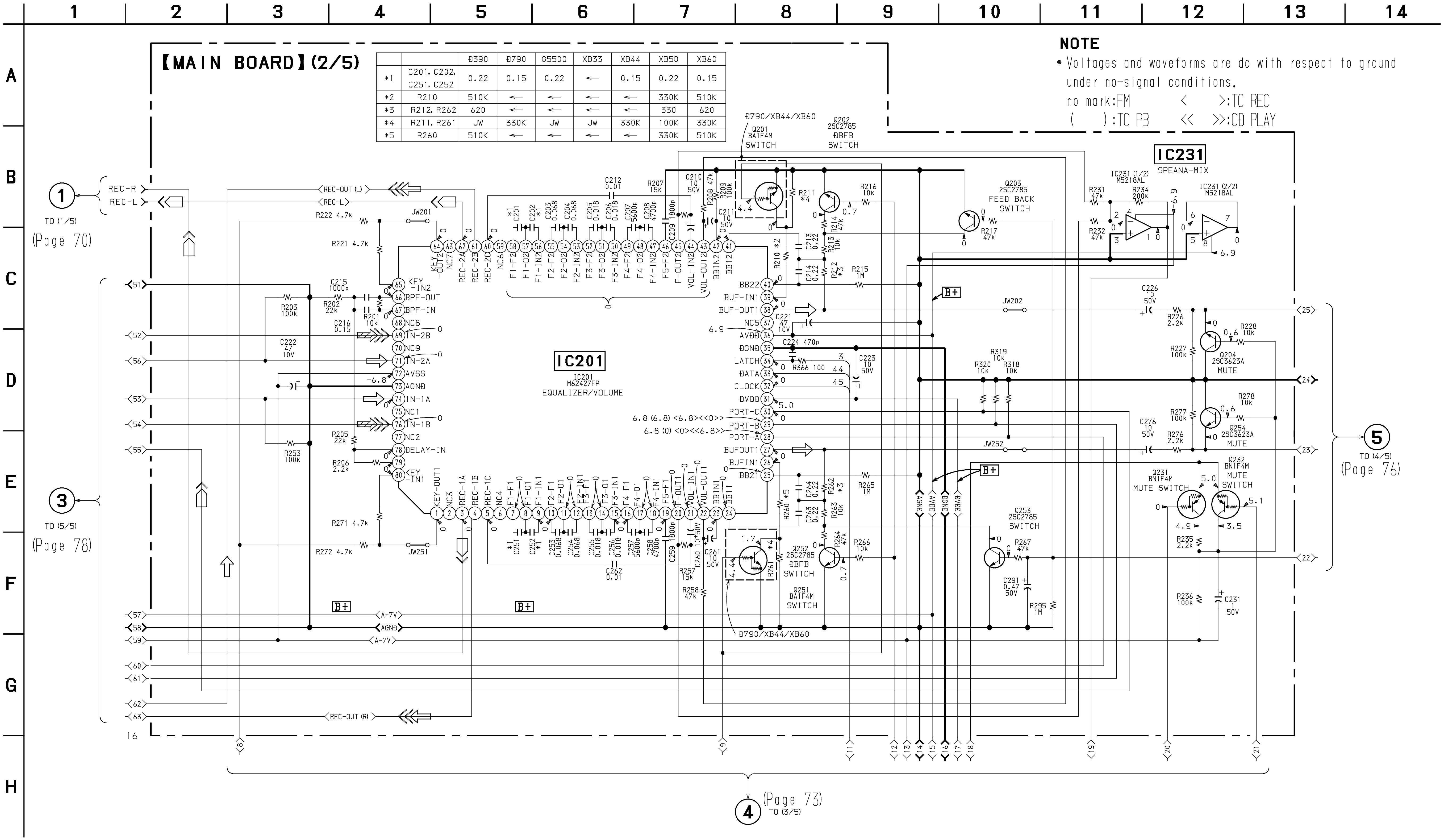
6-23. SCHEMATIC DIAGRAM – MAIN SECTION (2/5) –

• See page 81 for IC Block Diagrams.

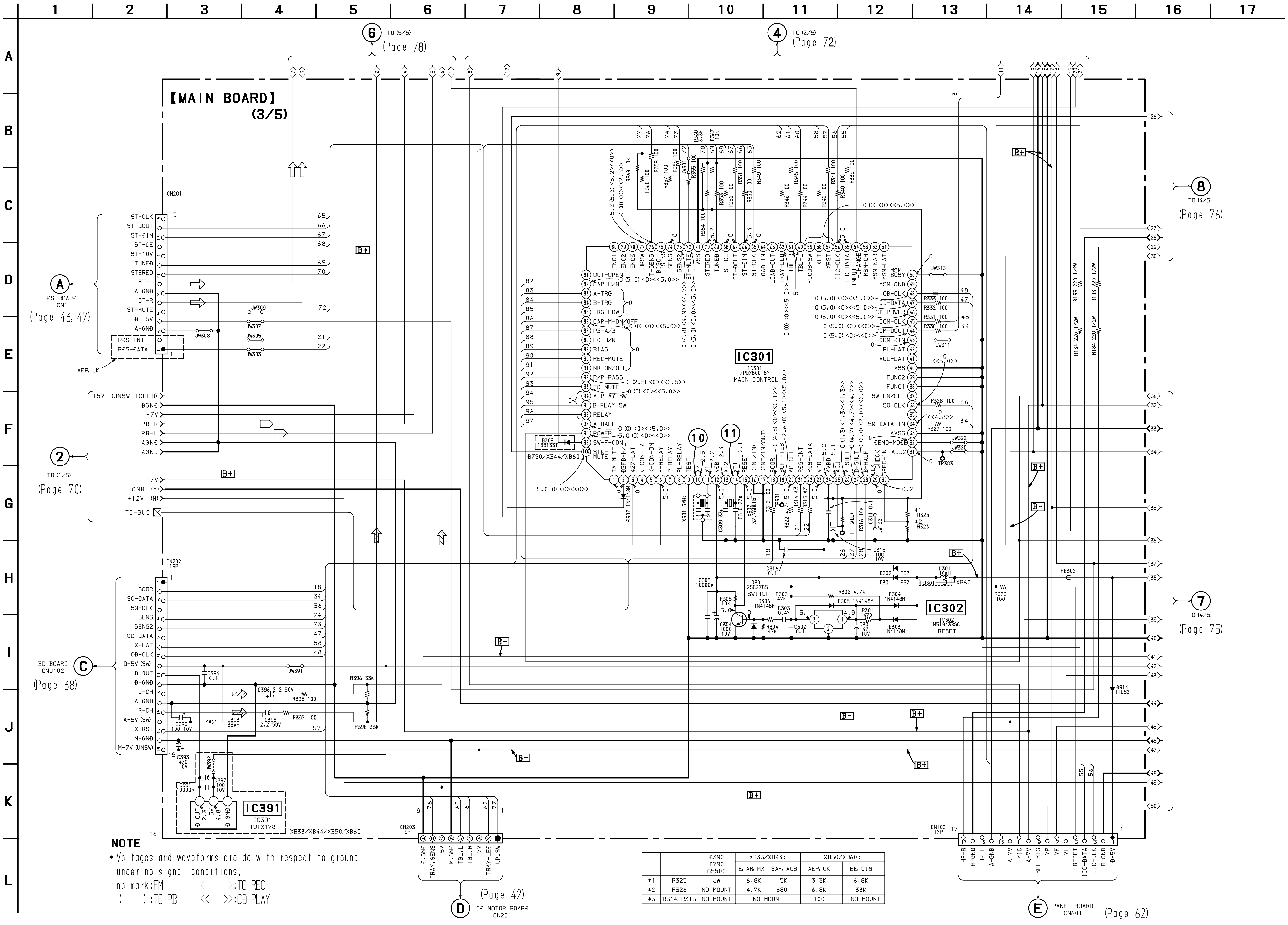
		D390	D790	G5500	XB33	XB44	XB50	XB60
*1	C201, C202, C251, C252	0.22	0.15	0.22	←	0.15	0.22	0.15
*2	R210	510K	←	←	←	←	330K	510K
*3	R212, R262	620	←	←	←	←	330	620
*4	R211, R261	JW	330K	JW	JW	330K	100K	330K
*5	R260	510K	←	←	←	←	330K	510K

NOTE

- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark:FM < >:TC REC
  ( ):TC PB << >>:CD PLAY



6-24. SCHEMATIC DIAGRAM – MAIN SECTION (3/5) – • See page 34 for Waveforms. • See page 84 for IC Pin Functions.



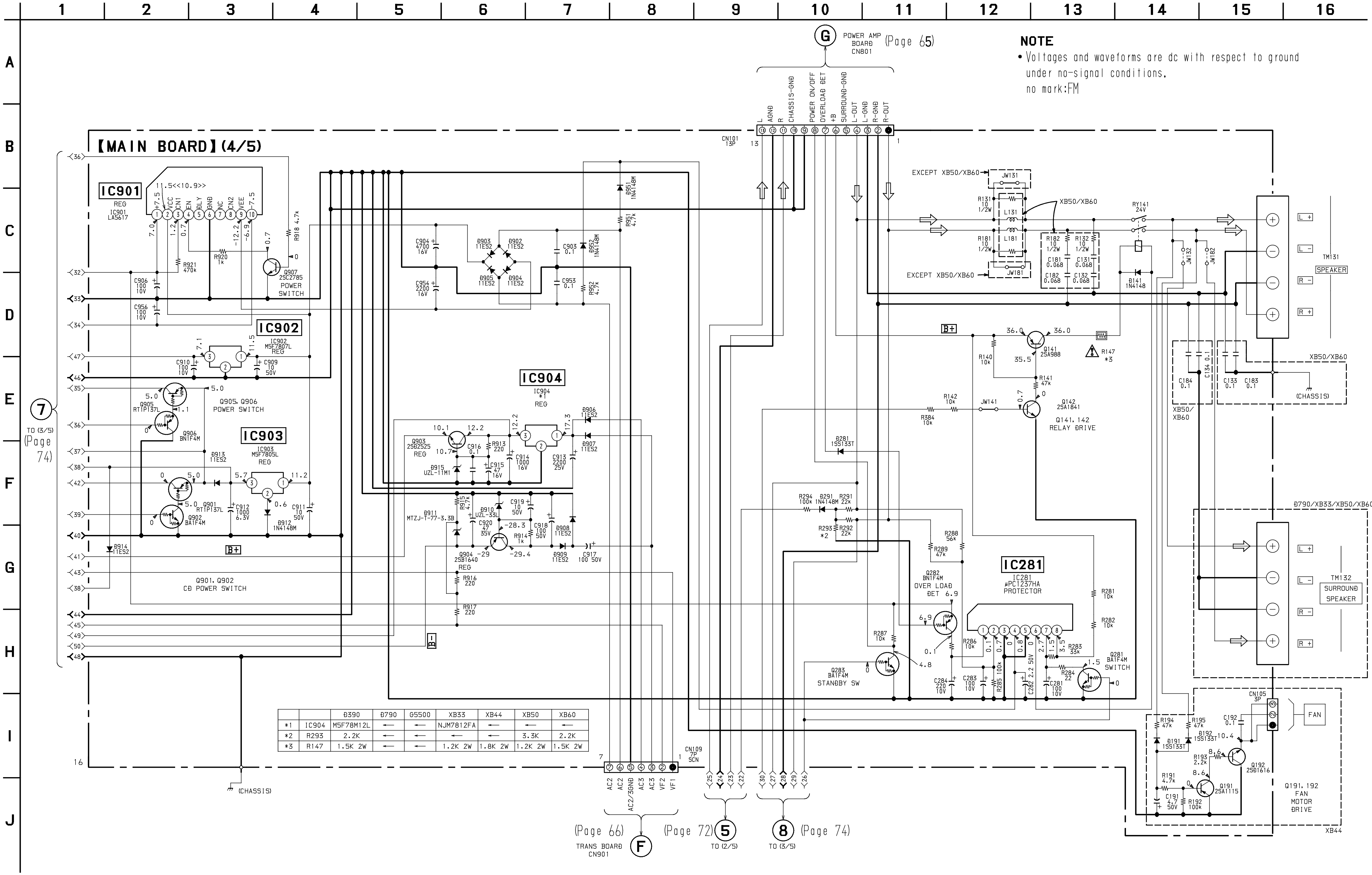
NOTE

- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : FM < > : TC REC
  ( ) : TC PB << >> : CD PLAY

		D390 D790 G5500	XB33/XB44:		XB50/XB60:	
			E, AR, MX	SAF, AUS	AEP, UK	EE, CIS
*1	R325	JW	6.8K	15K	3.3K	6.8K
*2	R326	NO MOUNT	4.7K	680	6.8K	33K
*3	R314, R315	NO MOUNT	NO MOUNT		100	NO MOUNT

6-25. SCHEMATIC DIAGRAM – MAIN SECTION (4/5) –

• See page 34 for Waveforms. • See page 82 for IC Block Diagrams.

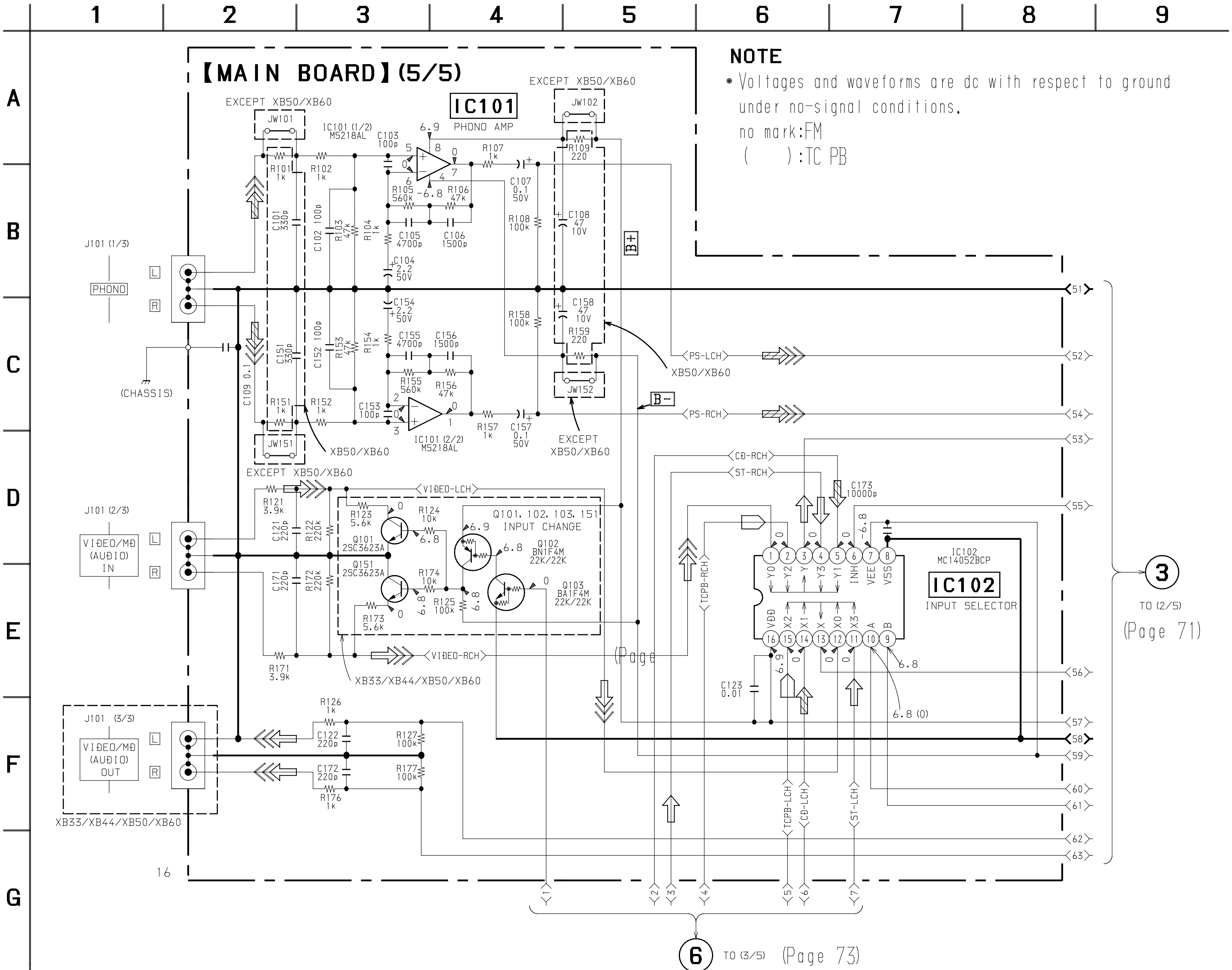


		D390	D790	G5500	XB33	XB44	XB50	XB60
*1	IC904	M5F78M12L	←	←	NJM7812FA	←	←	←
*2	R293	2.2K	←	←	←	←	3.3K	2.2K
*3	R147	1.5K 2W	←	←	1.2K 2W	1.8K 2W	1.2K 2W	1.5K 2W

NOTE

- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark:FM

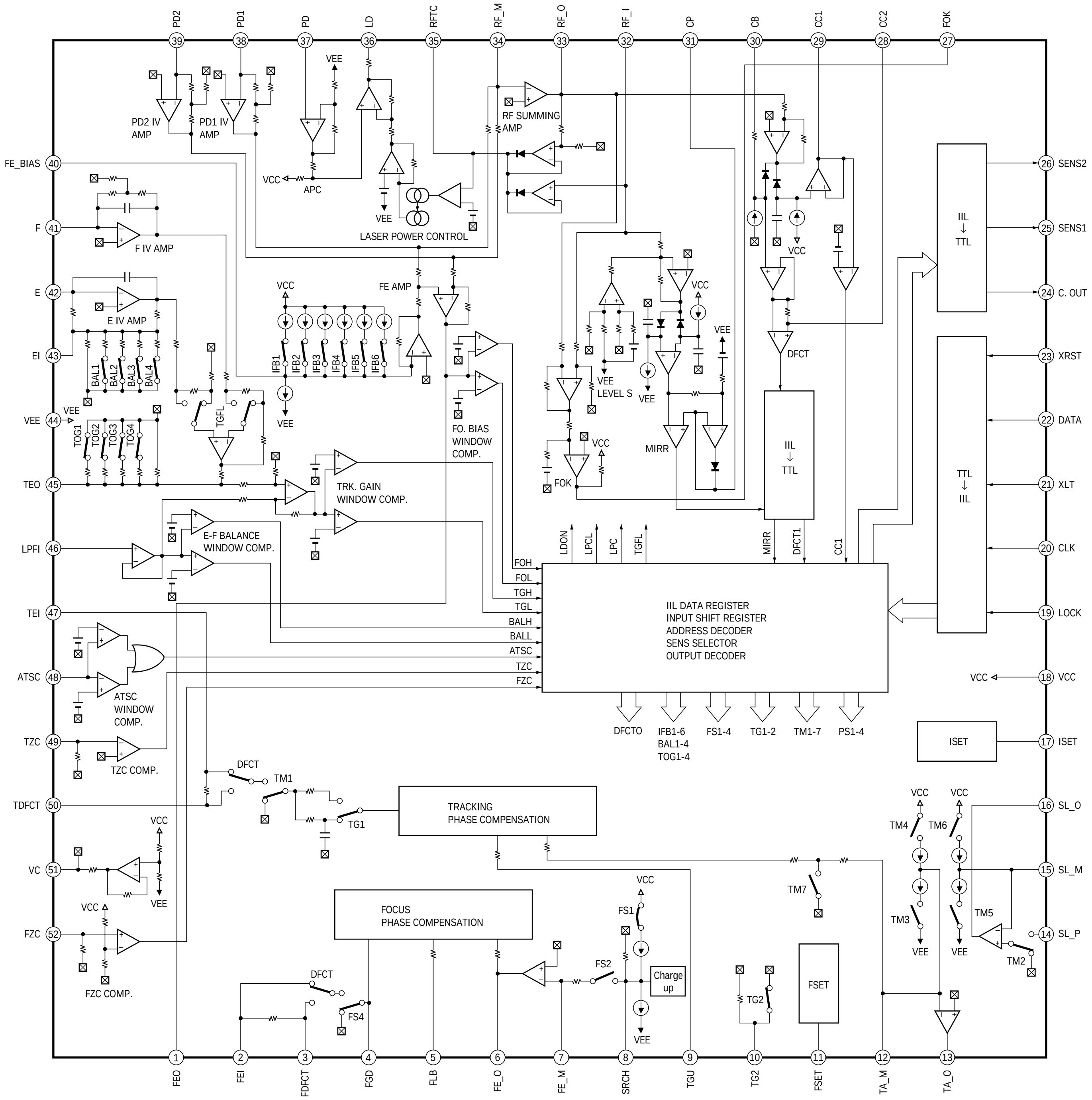
6-26. SCHEMATIC DIAGRAM – MAIN SECTION (5/5) – • See page 82 for IC Block Diagrams.



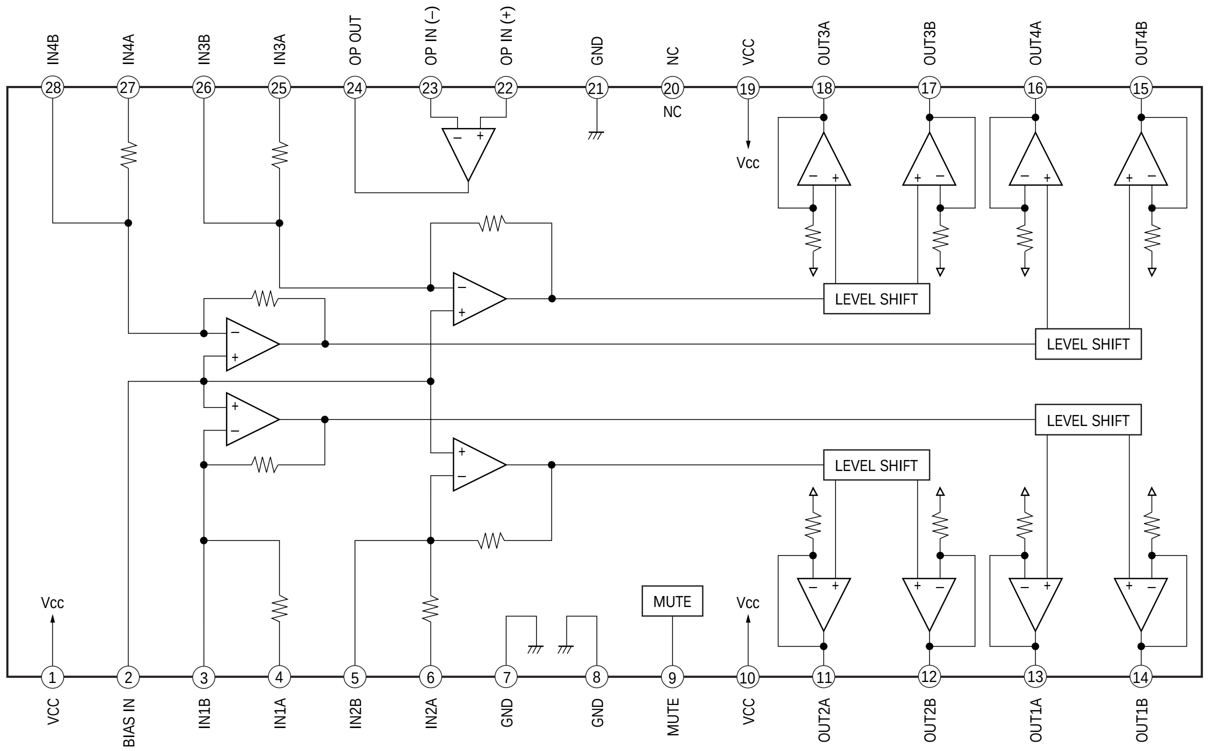
6-27. IC BLOCK DIGARAMS

– BD SECTION –

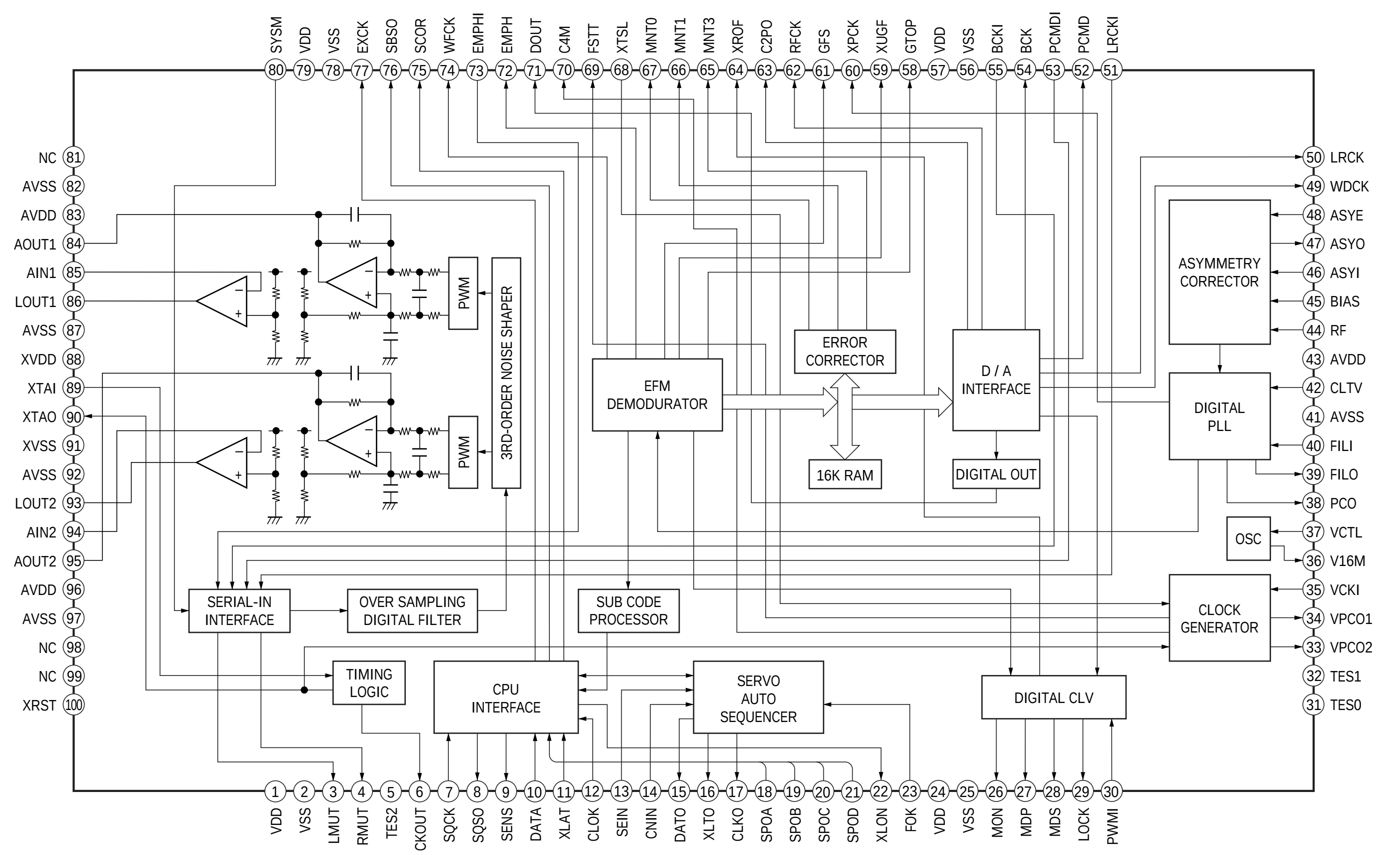
IC101 CXA1992AR



IC102 BA5941FP

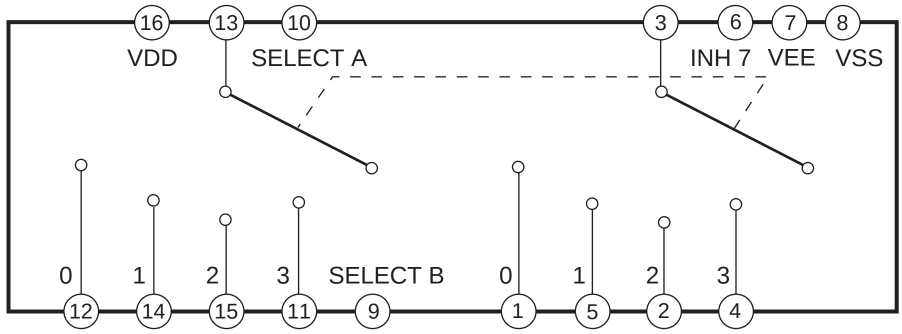


IC103 CXD2519Q

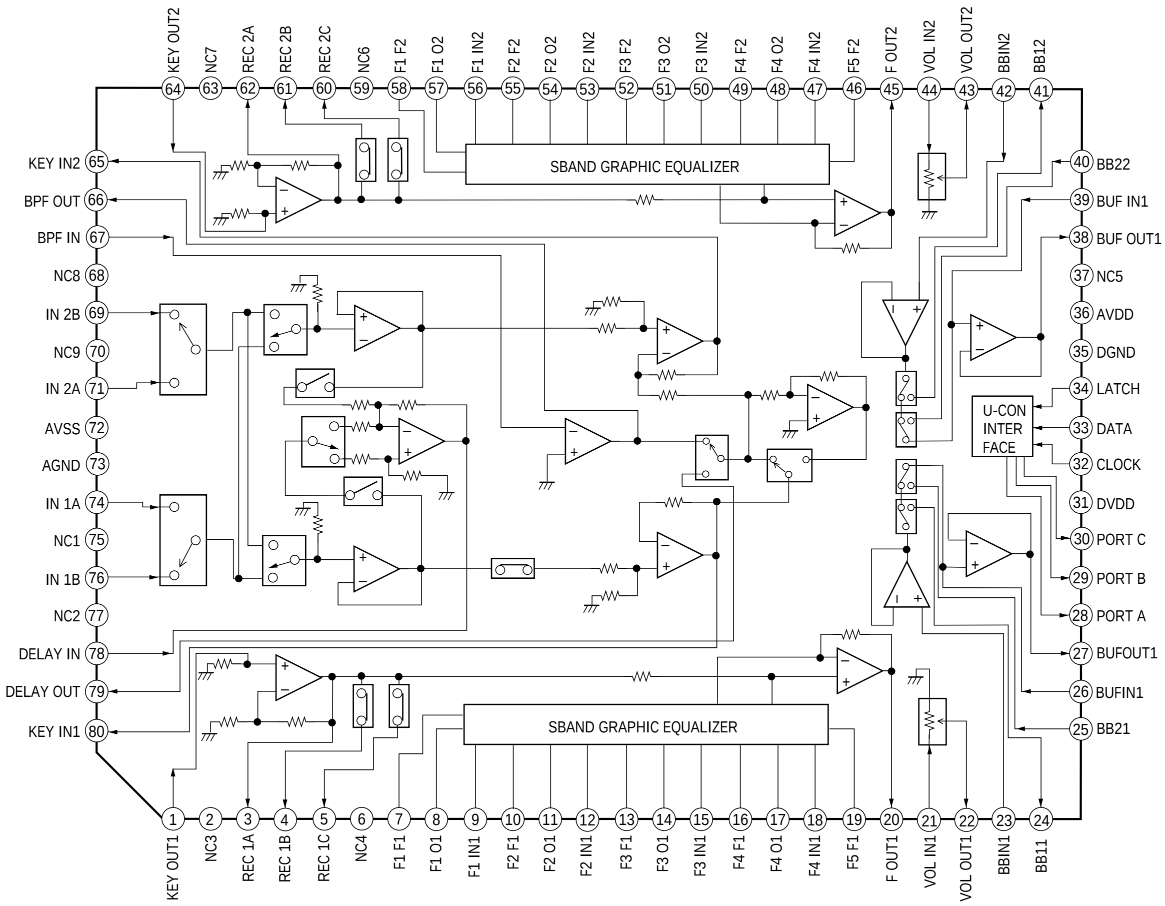


– MAIN SECTION –

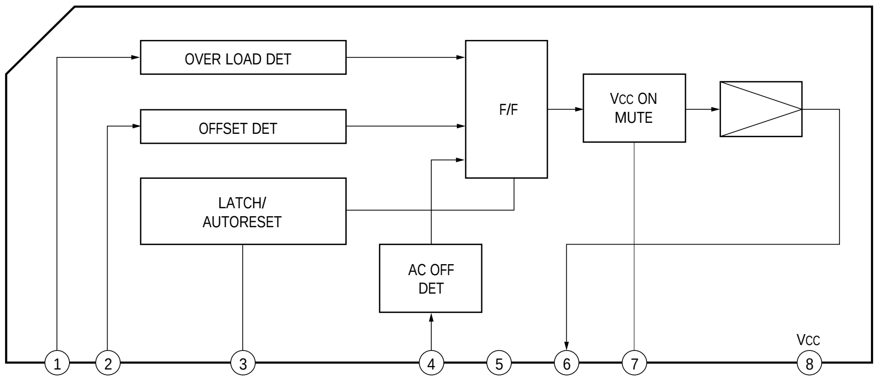
IC102 MC14052BCP



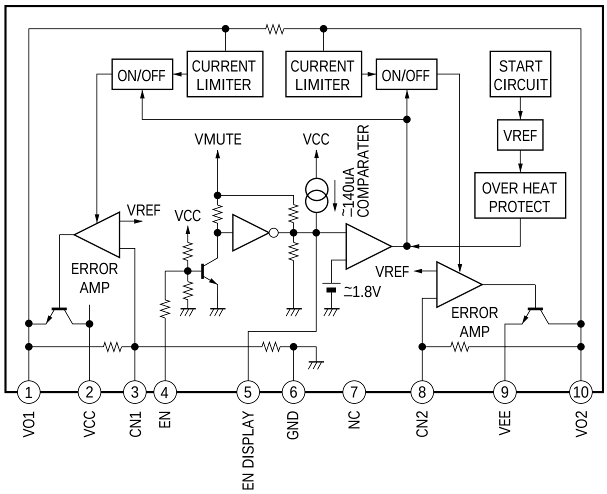
IC201 M62427FP



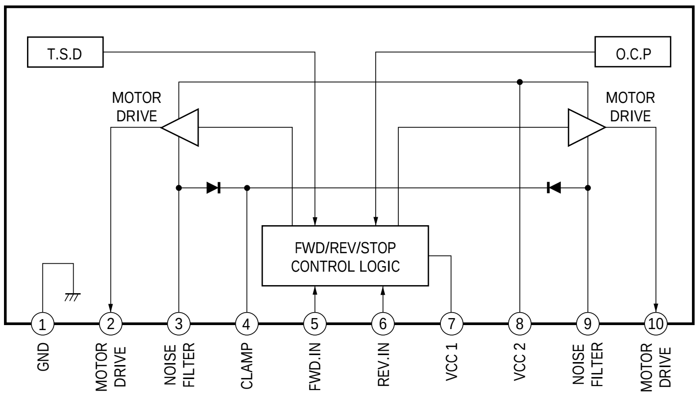
IC281 UPC1237HA



IC901 LA5617

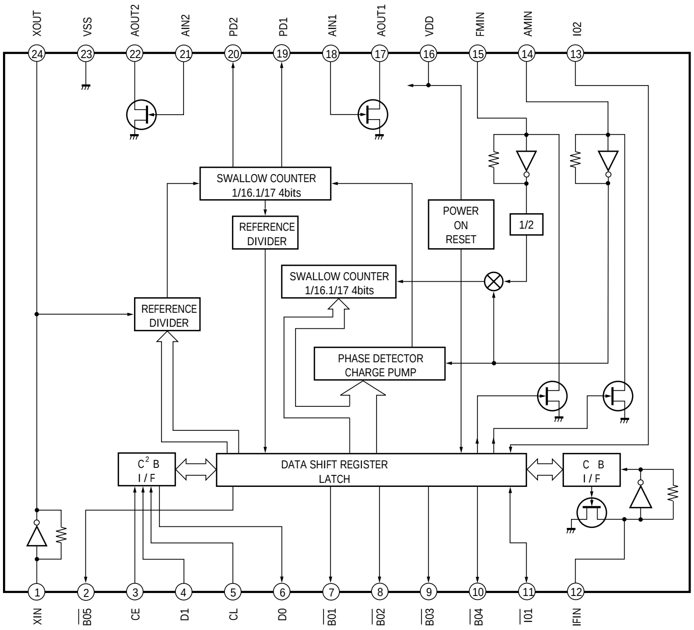


IIC1502 LB1641

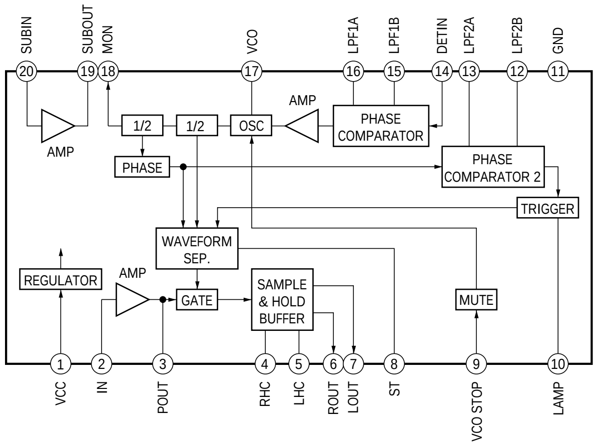


– TUNER SECTION –

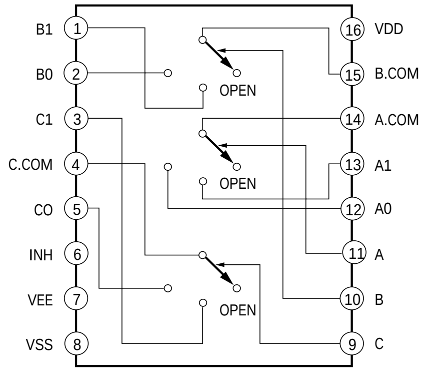
IC21 LC72130



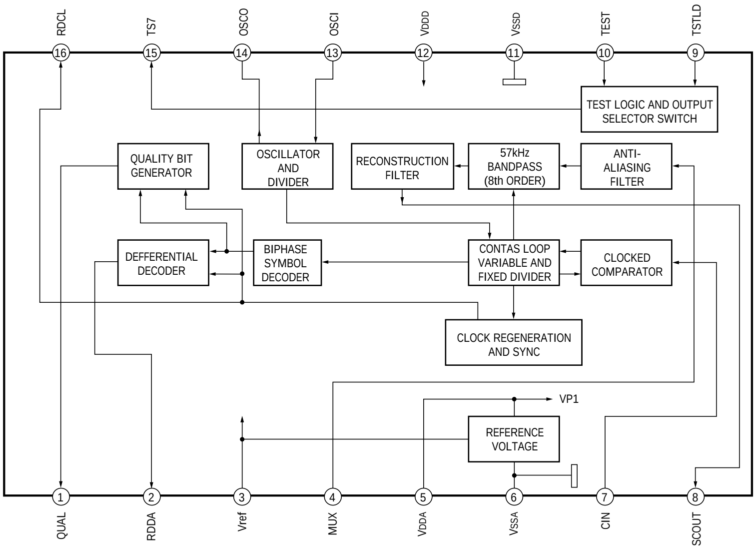
IC1701 IR3R42



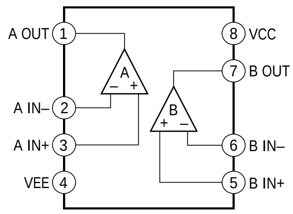
IC1702 MC14053BCP



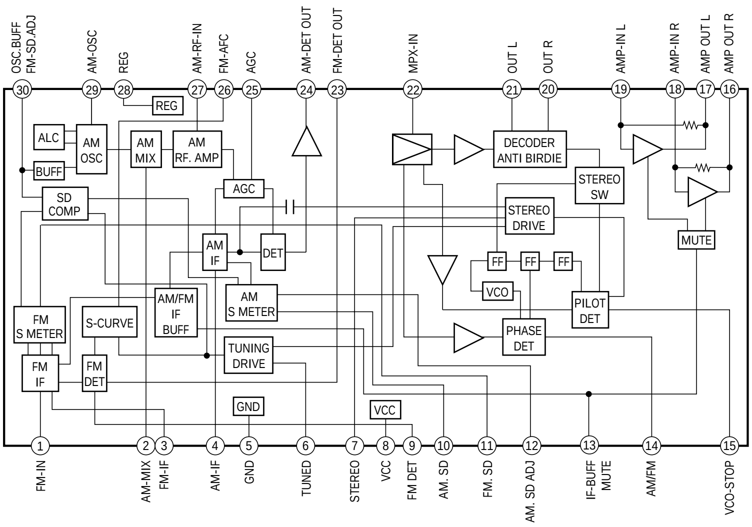
IC1752 BU1922



IC1751 NJM4558D



IC41 LA1838



6-28. IC PIN FUNCTION DESCRIPTION

MAIN BOARD IC301 µPD780018Y (MAIN CONTROL)

Pin No.	Pin Name	I/O	Function
1	TA-MUTE	O	Line mute signal output
2	DBFB-H/L	O	DBFB H/L select signal output
3	427-LT	O	Latch signal output for IC201 (62427)
4	KCON-LT	O	Not used
5	KCON-ON/OFF	O	
6	F-RELAY	O	Front speaker relay control output
7	R-RELAY	O	Not used
8	PL-RELAY	O	
9	TEST	I	Connected ground
10	X2	O	X’tal (5MHz)
11	X1	I	
12	VDD	–	Power supply (+5V)
13	XT2	O	X’tal (32.768 KHz)
14	XT1	I	
15	RESET	I	Reset signal input
16	INT/IN	I	Connected ground
17	INT/IN/OUT	I	
18	SCOR	O	Sub code data request signal output
19	SOFT-TEST	O	Software test port
20	AC-CUT	I	Back up signal input
21	RDS-INT	I	RDS signal input
22	RDS-DATA	I	RDS data input
23	VDD	–	Power supply (+5V)
24	AVDD	I	Analog reference voltage input
25	ADJ	I	CD adjust point port
26	A-SHUT	I	A Deck reel pulse detector
27	B-SHUT	I	B Deck reel pulse detector
28	B-HALF	I	Half detector signal input
29	CLK-CHECK	I	Connected ground
30	SPEC-IN	I	Version select signal input
31	ADJ 2	I	Connected ground
32	DEMO-CHANGE	I	DEMO H/L select signal input
33	AVss	–	Ground
34	SQ-DATA-IN	I	Sub code Q data input
35	—	–	Not used
36	SQ-CLK	I	Sub code Q data clock input
37	SW-ON/OFF	O	Not used
38, 39	FUNC 1, 2	I	Connected ground
40	Vss	–	Ground
41	VOL-LAT	O	Not used
42	PL-LAT	O	
43	COM-DIN	I	Connected ground
44	COM-DOUT	O	Common serial data output
45	COM-CLK	O	Common serial clock output
46	CD-POWER	O	CD power on signal output
47	CD-DATA	O	CD data output
48	CD-CLOK	O	CD clock output
49	MSM-CMD	O	Not used
50	MSM-BUSY	I	Connected ground

Pin No.	Pin Name	I/O	Function
51	MSM-LT	O	Not used
52	MSM-NAR	I	
53	MSM-CH	O	
54	INPUT-CHANGE	O	Not used
55	11C-DATA	O	Data output for IC601
56	11C-CLK	O	Clock output for IC601
57	XRST	O	CD reset signal output
58	XLT	O	CD latch signal output
59	FOUCUS-SW	O	Not used
60	TBL-L	O	Table motor control output
61	TBL-R	O	
62	TRAY-LED	O	CD tray LED ON/OFF output
63	LOAD-OUT	O	Not used
64	LOAD-IN	O	
65	ST-CLK	O	Tuner clock output
66	ST-DIN	I	Tuner data input
67	ST-DOUT	O	Tuner data output
68	ST-CE	O	Tuner chip enable output
69	TUNED	I	Tuned detection for tuner
70	STEREO	I	Stereo detection for tuner
71	Vss	–	Ground
72	ST-MUTE	O	Tuner mute signal output
73	SENS2	I	BD Condition signal input
74	SENS	I	
75	DISC-SENS	I	Not used
76	T-SENS	I	CD table detection signal input
77	UP-SW	I	Up SW (S201) signal input
78	ENC 3	I	Not used
79	ENC 2	I	
80	ENC 1	I	
81	OUT-OPEN	I	Not used
82	CAP-M-H/N	O	Capstan motor H/N speed select signal output
83	B-TRG	O	Trigger motor control output
84	A-TRG	O	Trigger motor control output
85	TRG-LOW	O	Trigger motor control output
86	CAP-M-ON/OFF	O	Capstan motor ON/OFF signal output
87	PB-A/B	O	PB Deck A/Deck B select output
88	EQ-H/N	O	Equalizer H/N select output
89	BIAS	O	Bias ON/OFF signal output
90	REC-MUTE	O	REC mute ON/OFF selection output
91	NR-ON/OFF	O	NR ON/OFF signal output
92	R/P-PASS	I	REC/PB/PASS selection output
93	TC-MUTE	O	TC mute ON/OFF selection output
94	A-PLAY-SW	I	Deck A play detect
95	B-PLAY-SW	I	Deck B play detect
96	TC-RELAY	O	REC/PB head selection output for IC602
97	A-HALF	I	Deck A cassette detect
98	POWER	O	POWER ON/OFF signal output
99	SW-F-CHG	O	Super woofer mode signal output
100	STK-MUTE	O	Power amp ON/OFF signal output

PANEL BOARD IC601 TMP87CH74 (DISPLAY CONTROL)

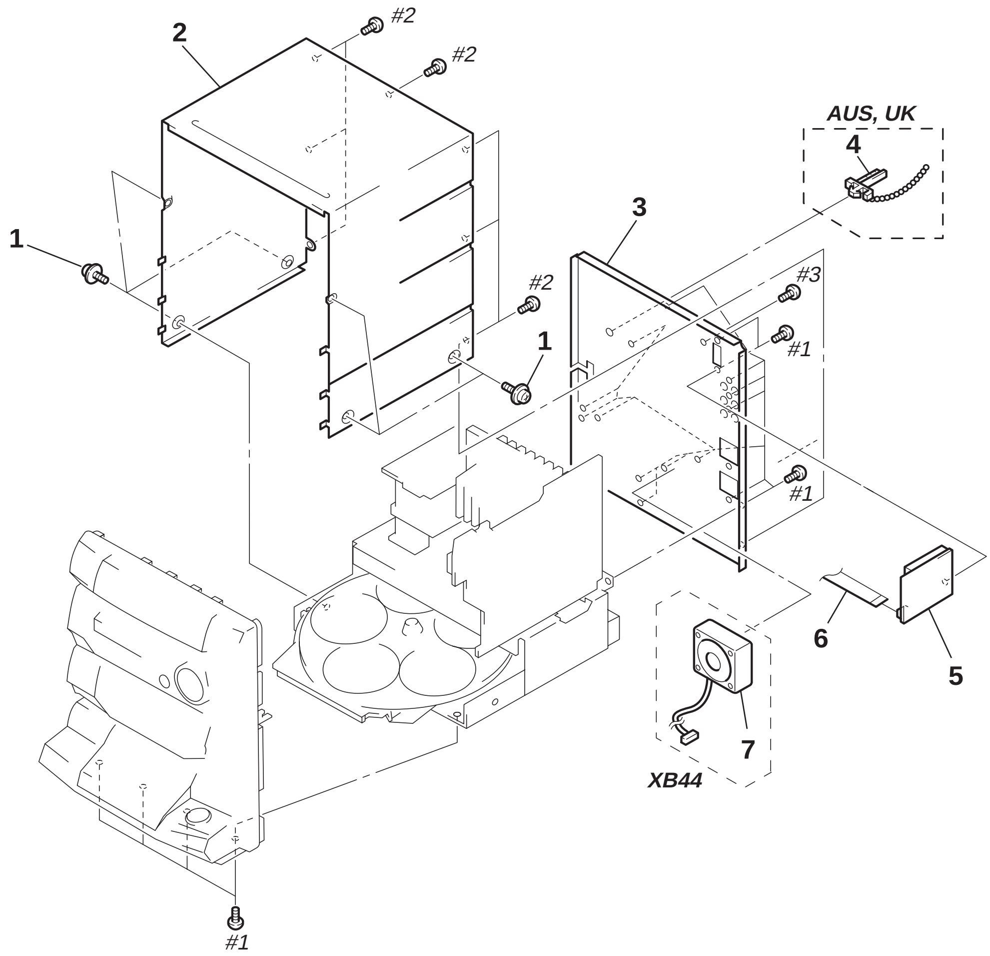
Pin No.	Pin Name	I/O	Function
1–6	LED3-LED8	O	LED driver output
7	VSS	–	Ground
8	X-OUT	O	X'tal (8MHz)
9	X-IN	I	
10	RESET	I	Reset signal input from main controller
11	LED 9	O	Connected ground
12	LED10	O	
13	TEST	I	
14–19	LED11-LED19	O	LED driver output
20	VOL-A	I	Rotary encoder (S701 VOLUME) pulse input
21	DOOR SW	I	SOOR SW (S651) ON/OFF signal input
22	JOG-A	I	Rotaly encoder (S711 AMS) pulse input
23	CLOCK	I	Serial clock input from main controller
24	DATA	I	Serial data input from main controller
25	LED SELECT	O	LED select signal output
26	MODEL	I	Version select signal input
27–30	KEY1-KEY4	I	Key input
31	SPEANA-3	I	Connected ground
32	L + R	I	Spectrum analyzer (high frequency) input
33	SIRCS	I	Remote commander signal input
34	VOL-B	I	Rotary encoder (S701 VOLUME) pulse input
35	JOG-B	I	Rotary encoder (S711 AMS) pulse input
36	SPEANA-1	I	Spectrum analyzer (Low frequency) input
37	SPEANA-2	I	Spectrum analyzer (Middle frequency) input
38	VASS	–	Ground
39	VAREF	I	Analog reference voltage input
40	VDD	–	Power supply (+5V)
41	—	–	Not used
42–56	GR1-GR15	O	FL gride signal output
57–77	SEG1-SEG77	O	FL segment signal output
78	VKK	–	–30V driving power for FL
79, 80	LED1-LED2	O	LED driver output

SECTION 7
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation
  AR : Argentine　　EE : East European
  AUS : Australian　　MX : Mexican
  CND : Canadian　　SAF : South African
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

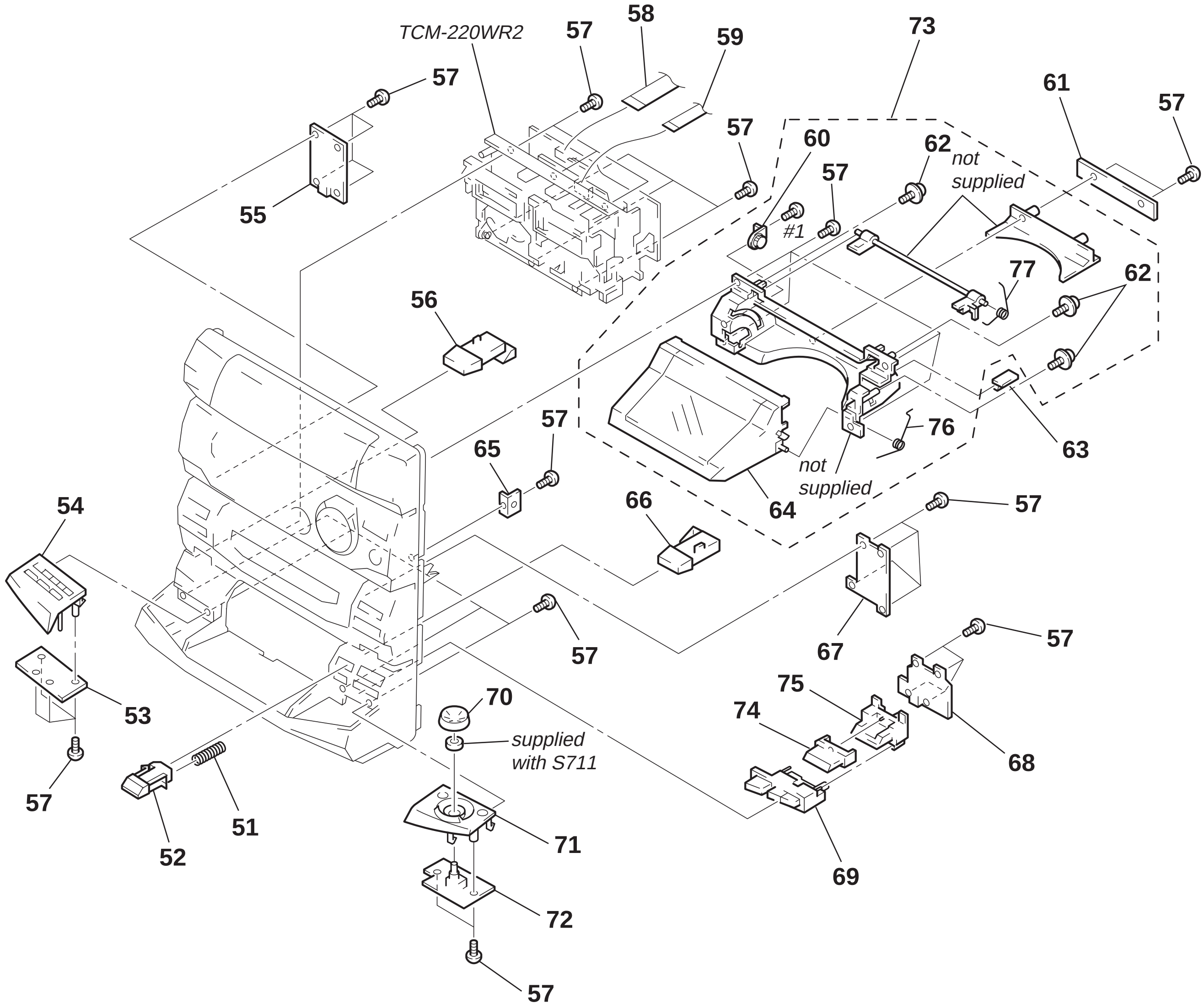
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. CASE, REAR PANEL SECTION



Ref. No.	Part No.	Description	Remarks
1	3-363-099-01	SCREW (CASE 3 TP2)	
* 2	4-987-052-72	CASE (G5500)	
* 2	4-987-052-92	CASE (EXCEPT G5500)	
* 3	4-996-410-01	PANEL, BACK (XB33: E, AR)	
* 3	4-996-410-21	PANEL, BACK (XB33: MX)	
* 3	4-996-410-31	PANEL, BACK (XB33: AUS)	
* 3	4-996-410-41	PANEL, BACK (XB33: SAF)	
* 3	4-996-411-01	PANEL, BACK (D390: US)	
* 3	4-996-411-11	PANEL, BACK (D390: CND)	
* 3	4-996-411-21	PANEL, BACK (XB50: AEP, UK)	
* 3	4-996-411-31	PANEL, BACK (XB50: EE,CIS)	
* 3	4-996-411-41	PANEL, BACK (G5500)	
* 3	4-996-412-01	PANEL, BACK (XB44: E, AR)	
* 3	4-996-412-21	PANEL, BACK (XB44: MX)	
* 3	4-996-412-31	PANEL, BACK (XB44: AUS)	
* 3	4-996-412-41	PANEL, BACK (XB44: SAF)	
* 3	4-996-419-01	PANEL, BACK (D790: US)	
* 3	4-996-419-11	PANEL, BACK (D790: CND)	
* 3	4-996-419-21	PANEL, BACK (XB60: AEP, UK)	
* 3	4-996-419-31	PANEL, BACK (XB60: EE, CIS)	
4	4-956-370-12	BAND, PLUG FIXED (AUS, UK)	
5	1-233-544-11	ENCAPSULATED COMPONENT	(D390/D790/G5500)
5	1-233-545-11	ENCAPSULATED COMPONENT (XB33/XB44)	
* 5	A-4303-588-A	TCB BOARD, COMPLETE (EE, CIS)	
* 5	A-4303-590-A	TCB BOARD, COMPLETE (AEP, UK)	
6	1-769-974-11	WIRE (FLAT TYPE) (13 CORE)	(EXCEPT XB50/XB60)
6	1-773-006-11	WIRE (FLAT TYPE) (15 CORE) (XB50/XB60)	
7	1-698-792-11	FAN, DC (XB44)	

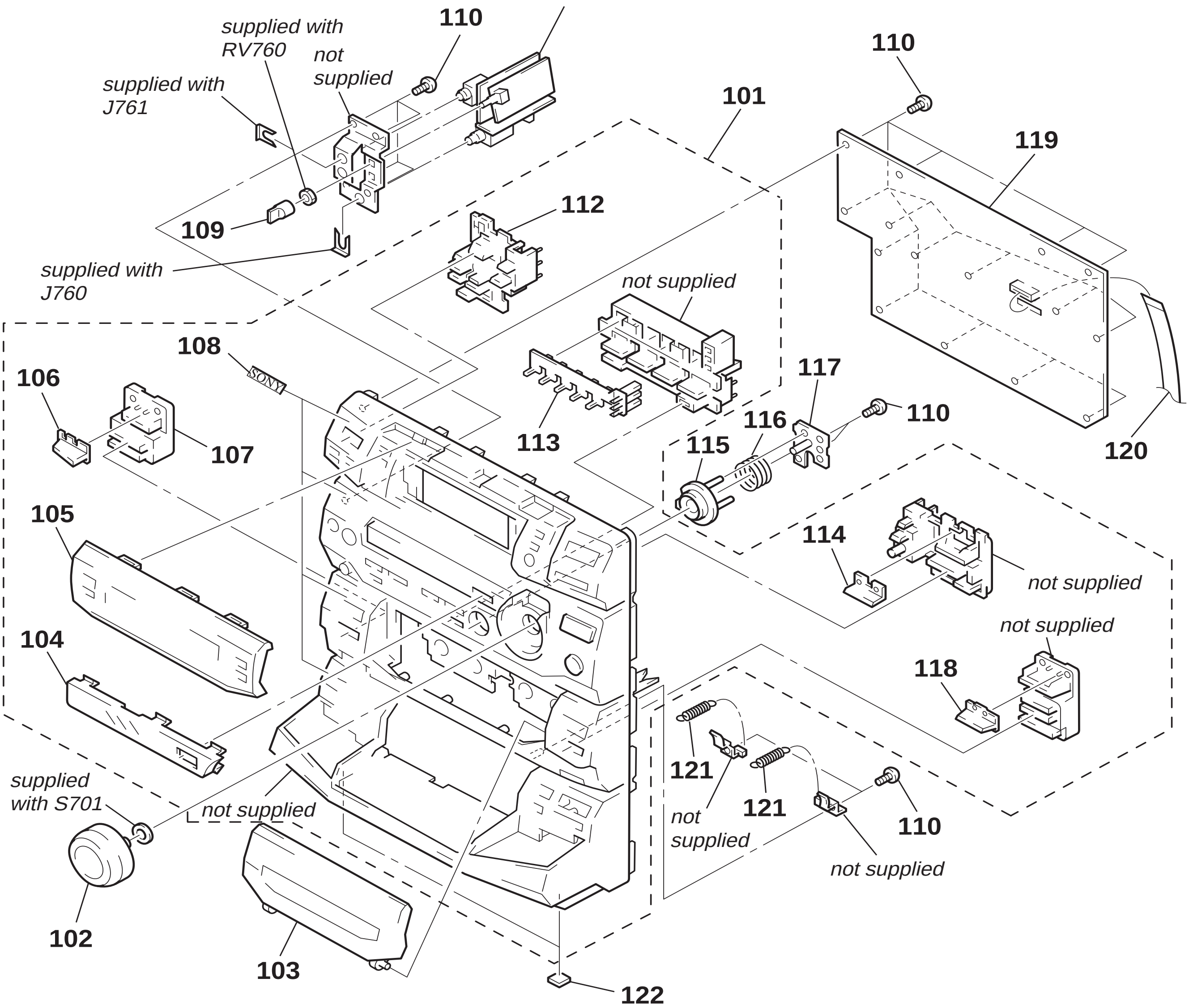
7-2. FRONT PANEL SECTION-1



Ref. No.	Part No.	Description	Remarks
51	4-987-995-01	SPRING (CD EJECT), COMPRESSION	
52	4-987-001-01	BUTTON (EJECT CD)(G5500)	
52	4-987-001-11	BUTTON (EJECT CD)(EXCEPT G5500)	
* 53	1-669-630-11	CD-A SW BOARD	
54	X-4948-297-1	PANEL (A) SUB ASSY (G5500)	
54	X-4949-273-1	PANEL (A) SUB ASSY (D390/D790)	
54	X-4949-282-1	PANEL(A) SUB ASSY (XB33/XB44/XB50/XB60)	
* 55	1-664-012-11	TC-A SW BOARD	
56	4-986-999-01	BUTTON (EJECT A) (G5500)	
56	4-986-999-12	BUTTON (EJECT A) (EXCEPT G5500)	
57	4-951-620-01	SCREW (2.6 × 8), +BVTP	
58	1-773-161-11	WIRE (FLAT TYPE) (21 CORE)	
59	1-769-949-11	WIRE (FLAT TYPE) (11 CORE)	
60	3-354-963-01	DAMPER	
* 61	1-664-017-11	LED BOARD	
62	4-957-577-01	SCREW PTP WH (2.6 × 8) (DIA. 10)	
* 63	1-664-016-11	DOOR SW BOARD	
64	X-4949-684-1	LID ASSY, DISC (D390/D790/XB50/XB60)	
64	X-4949-685-1	LID ASSY, DISC (XB33/XB44)	
64	X-4949-709-1	LID ASSY, DISC (G5500)	

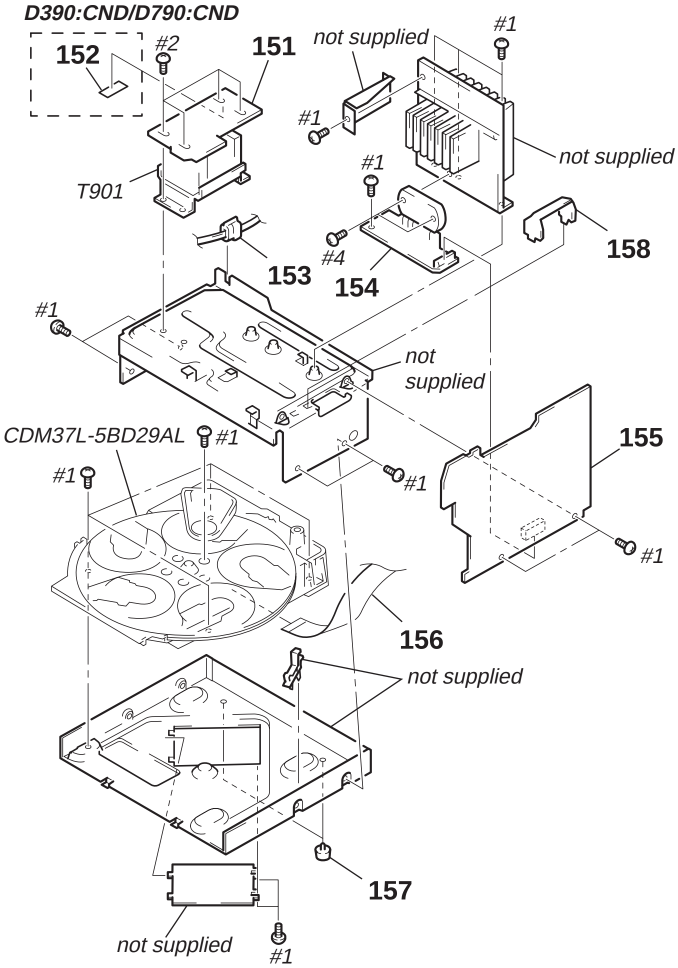
Ref. No.	Part No.	Description	Remarks
* 65	4-987-933-01	BRACKET (TA)	
66	4-987-000-01	BUTTON (EJECT B) (G5500)	
66	4-987-000-12	BUTTON (EJECT B) (EXCEPT G5500)	
* 67	1-664-013-11	TC-B SW BOARD	
* 68	1-669-631-11	CD-B1 SW BOARD	
69	X-4947-969-1	BUTTON (CD STOP) ASSY (G5500)	
69	X-4949-279-1	BUTTON (CD STOP) ASSY (EXCEPT G5500)	
70	4-987-037-01	KNOB (JOG) (G5500)	
70	4-987-037-11	KNOB (JOG) (EXCEPT G5500)	
71	X-4948-298-1	PANEL (B) SUB ASSY (G5500)	
71	X-4949-274-1	PANEL (B) SUB ASSY (EXCEPT G5500)	
* 72	1-669-632-11	CD-B2 SW BOARD	
73	A-4384-446-A	LID ASSY, CD (G5500)	
73	A-4384-908-A	LID ASSY, CD (D390/D790/XB50/XB60)	
73	A-4384-916-A	LID ASSY, CD (XB33/XB44)	
74	4-987-014-01	INDICATOR (CD)	
75	4-987-002-01	BUTTON (CD.PLAY) (G5500)	
75	4-987-002-11	BUTTON (CD.PLAY) (EXCEPT G5500)	
76	4-987-997-01	SPRING (CD.LID), TORSION	
77	4-987-998-01	SPRING (LOCK SHAFT), TORSION	

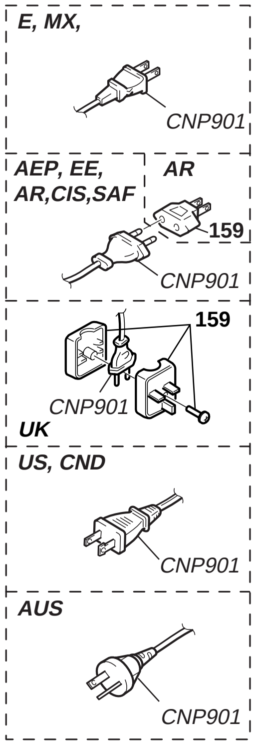
7-3. FRONT PANEL SECTION-2



Ref. No.	Part No.	Description	Remarks
101	X-4949-270-1	PANEL ASSY (D390)	
101	X-4949-285-1	PANEL ASSY (XB50: AEP, UK)	
101	X-4949-287-1	PANEL ASSY (XB33)	
101	X-4949-288-1	PANEL ASSY (D790)	
101	X-4949-289-1	PANEL ASSY (XB60: AEP, UK)	
101	X-4949-291-1	PANEL ASSY (XB44)	
101	X-4949-453-1	PANEL ASSY (G5500)	
101	X-4949-579-1	PANEL ASSY (XB50: EE, CIS)	
101	X-4949-580-1	PANEL ASSY (XB60: EE, CIS)	
102	4-987-036-01	KNOB (VOL) (G5500)	
102	4-987-036-11	KNOB (VOL) (EXCEPT G5500)	
103	X-4947-973-1	LID ASSY, CASSETTE (G5500)	
103	X-4949-271-1	LID ASSY, CASSETTE (EXCEPT G5500)	
104	4-987-032-01	DISPLAY (TA)	
105	4-987-028-01	DISPLAY (ST)(G5500)	
105	4-987-028-11	DISPLAY (ST) (EXCEPT G5500)	
106	4-987-021-01	INDICATOR (TC A)	
107	4-986-997-01	BUTTON (DECK. A) (G5500)	
107	4-986-997-41	BUTTON (DECK. A) (EXCEPT G5500)	
108	4-963-404-21	EMBLEM (5-A), SONY	
109	4-973-644-01	KNOB (MIC) (G5500)	
109	4-973-644-71	KNOB (MIC)(EXCEPT G5500)	
110	4-951-620-01	SCREW (2.6 × 8), +BVTP	
* 111	A-4392-452-A	HEADPHONE-MIC BOARD, COMPLETE	
112	4-986-986-21	BUTTON (POWER) (EXCEPT G5500)	
112	4-986-986-31	BUTTON (POWER) (G5500)	
113	4-987-012-01	INDICATOR (TA)	
114	4-987-013-01	INDICATOR (TUNER)	
115	4-986-990-01	BUTTON (CURSOR) (G5500)	
115	4-986-990-11	BUTTON (CURSOR) (EXCEPT G5500)	
116	4-978-683-01	SPRING, COMPRESSION	
* 117	4-987-041-01	COVER, CURSOR	
118	4-987-022-01	INDICATOR (TC B)	
* 119	A-4403-872-A	PANEL BOARD, COMPLETE (D390/G5500/XB33/XB50: EE, CIS)	
* 119	A-4403-885-A	PANEL BOARD, COMPLETE (XB60: AEP, UK)	
* 119	A-4403-892-A	PANEL BOARD, COMPLETE (XB50: AEP, UK)	
* 119	A-4403-906-A	PANEL BOARD, COMPLETE (D790/XB44/XB60: EE, CIS)	
120	1-773-051-11	WIRE (FLAT TYPE) (17 CORE)	
121	4-987-996-01	SPRING (TC LID), TENSION	
122	4-948-236-21	CUSHION (107)	

7-4. CHASSIS SECTION

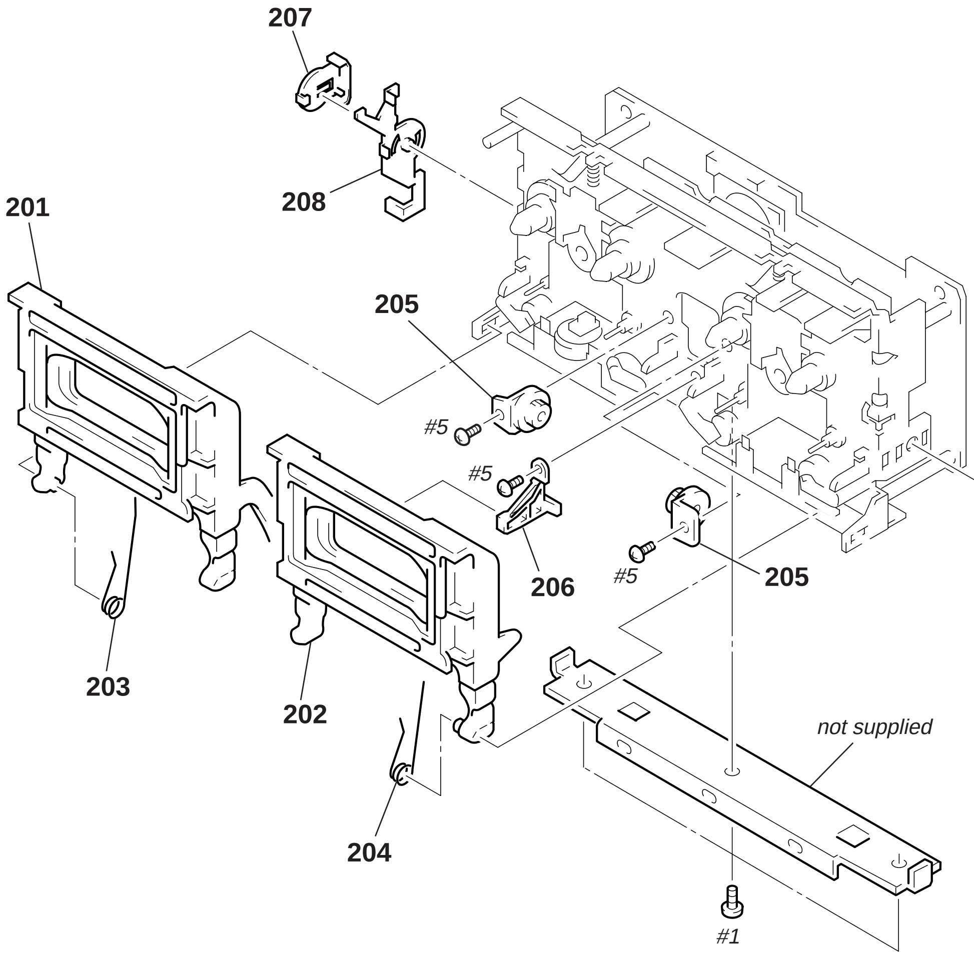




Ref. No.	Part No.	Description	Remarks
* 151	1-664-014-11	TRANS BOARD (D390: US/D790: US/G5500/XB50/XB60)	
* 151	1-668-169-11	TRANS BOARD (D390: CND/D790: CND/XB33/XB44)	
* 152	3-701-946-28	LABEL, FUSE RATING (D390: CND/D790: CND)	
153	3-703-244-00	BUSHING (FBS001), CORD (EXCEPT XB33: E, MX/XB44: E, MX)	
153	4-966-266-01	BUSHING (S) (FBS002), CORD (XB33: E, MX/XB44: E, MX)	
* 154	A-4392-442-A	POWER AMP BOARD, COMPLETE (D390/D790/G5500)	
* 154	A-4403-868-A	POWER AMP BOARD, COMPLETE (XB60)	
* 154	A-4403-888-A	POWER AMP BOARD, COMPLETE (XB44)	
* 154	A-4403-900-A	POWER AMP BOARD, COMPLETE (XB50)	
* 154	A-4403-912-A	POWER AMP BOARD, COMPLETE (XB33)	
* 155	A-4392-438-A	MAIN BOARD, COMPLETE (D390/G5500)	
* 155	A-4392-474-A	MAIN BOARD, COMPLETE (D790)	
* 155	A-4403-870-A	MAIN BOARD, COMPLETE (XB60: AEP, UK)	
* 155	A-4403-890-A	MAIN BOARD, COMPLETE (XB44: E, AR, MX)	
* 155	A-4403-894-A	MAIN BOARD, COMPLETE (XB50: AEP, UK)	
* 155	A-4403-909-A	MAIN BOARD, COMPLETE (XB33: E, AR, MX)	
* 155	A-4407-353-A	MAIN BOARD, COMPLETE (XB50: EE, CIS)	
* 155	A-4407-358-A	MAIN BOARD, COMPLETE (XB60: EE, CIS)	
* 155	A-4407-361-A	MAIN BOARD, COMPLETE (XB44: SAF, AUS)	
* 155	A-4407-364-A	MAIN BOARD, COMPLETE (XB33: SAF, AUS)	
156	1-777-868-11	WIRE (FLAT TYPE) (19 CORE)	
157	X-4941-228-1	FOOT (F22125H-M)	
* 158	4-988-533-01	HOLDER, PWB	
⚠ 159	1-569-008-11	ADAPTOR, CONVERSION 2P (AR)	
⚠ 159	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)	
⚠ CNP901	1-558-943-51	CORD, POWER (E, MX)	
⚠ CNP901	1-575-042-21	CORD, POWER (US, CND)	
⚠ CNP901	1-575-651-21	CORD, POWER (AEP, EE, AR, CIS, SAF, UK)	
⚠ CNP901	1-696-845-11	CORD, POWER (AUS)	
⚠ T901	1-431-045-11	TRANSFORMER, POWER (D390: US/G5500)	
⚠ T901	1-431-046-11	TRANSFORMER, POWER (D790: US)	
⚠ T901	1-431-634-11	TRANSFORMER, POWER (XB50)	
⚠ T901	1-431-635-11	TRANSFORMER, POWER (XB33)	
⚠ T901	1-431-636-11	TRANSFORMER, POWER (XB60)	
⚠ T901	1-431-637-11	TRANSFORMER, POWER (XB44)	
⚠ T901	1-431-733-11	TRANSFORMER, POWER (D390: CND/D790: CND)	

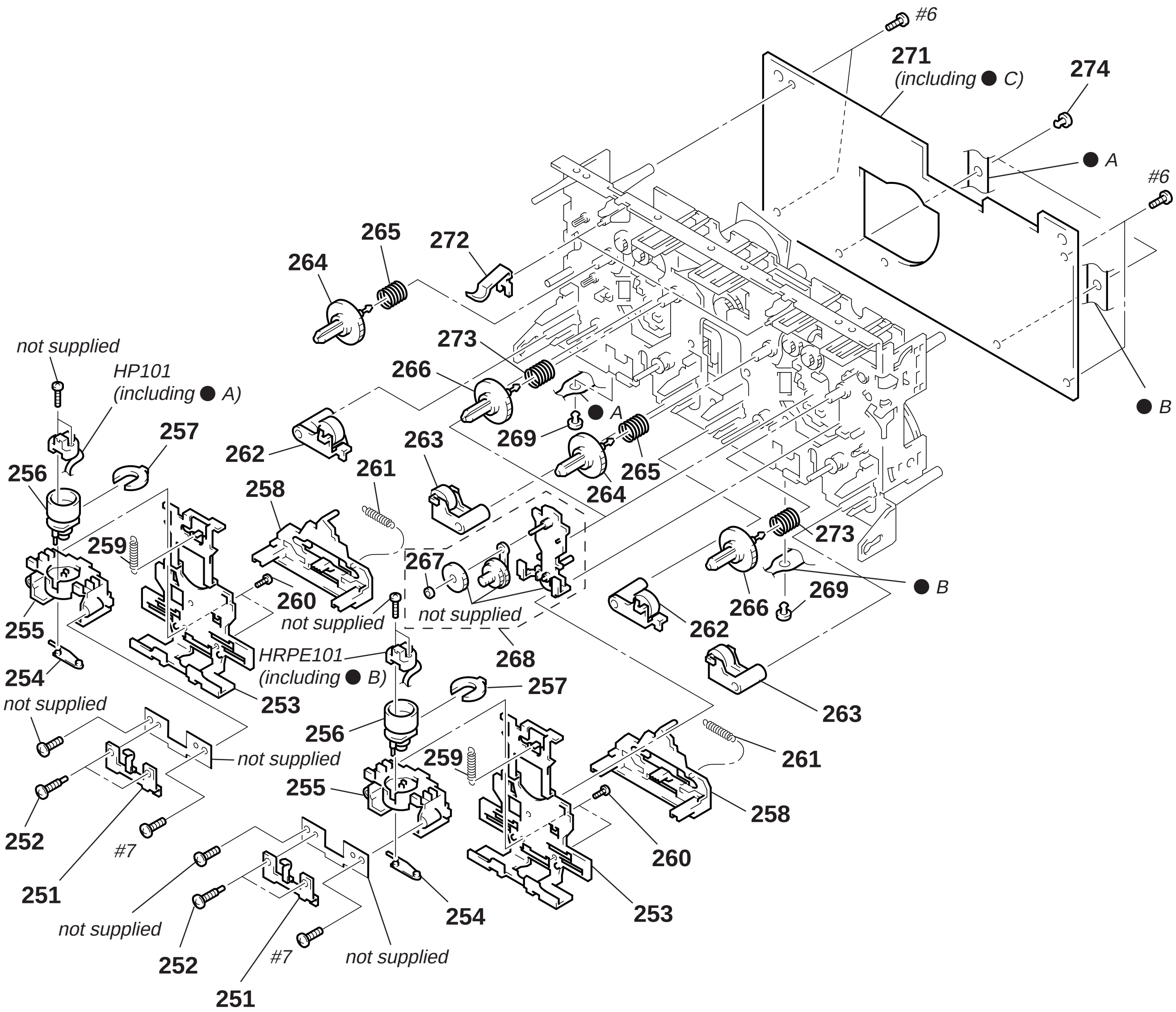
Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

7-5. TAPE MECHANISM DECK SECTION-1 (TCM-220WR2)



Ref. No.	Part No.	Description	Remarks
201	X-4947-943-1	HOLDER (L) ASSY, CASSETTE	
202	X-4947-944-1	HOLDER (R) ASSY, CASSETTE	
203	4-959-231-11	SPRING (L), TORSION	
204	4-959-232-11	SPRING (R), TORSION	
205	3-354-963-01	DAMPER	
* 206	4-980-439-01	FULCRUM, HOLDER	
207	3-354-957-01	JOINT (LOCK LEVER)	
208	3-354-953-01	LEVER (LOCK LEVER L)	
209	3-354-954-01	LEVER (LOCK LEVER R)	

7-6. TAPE MECHANISM DECK SECTION-2 (TCM-220WR2)

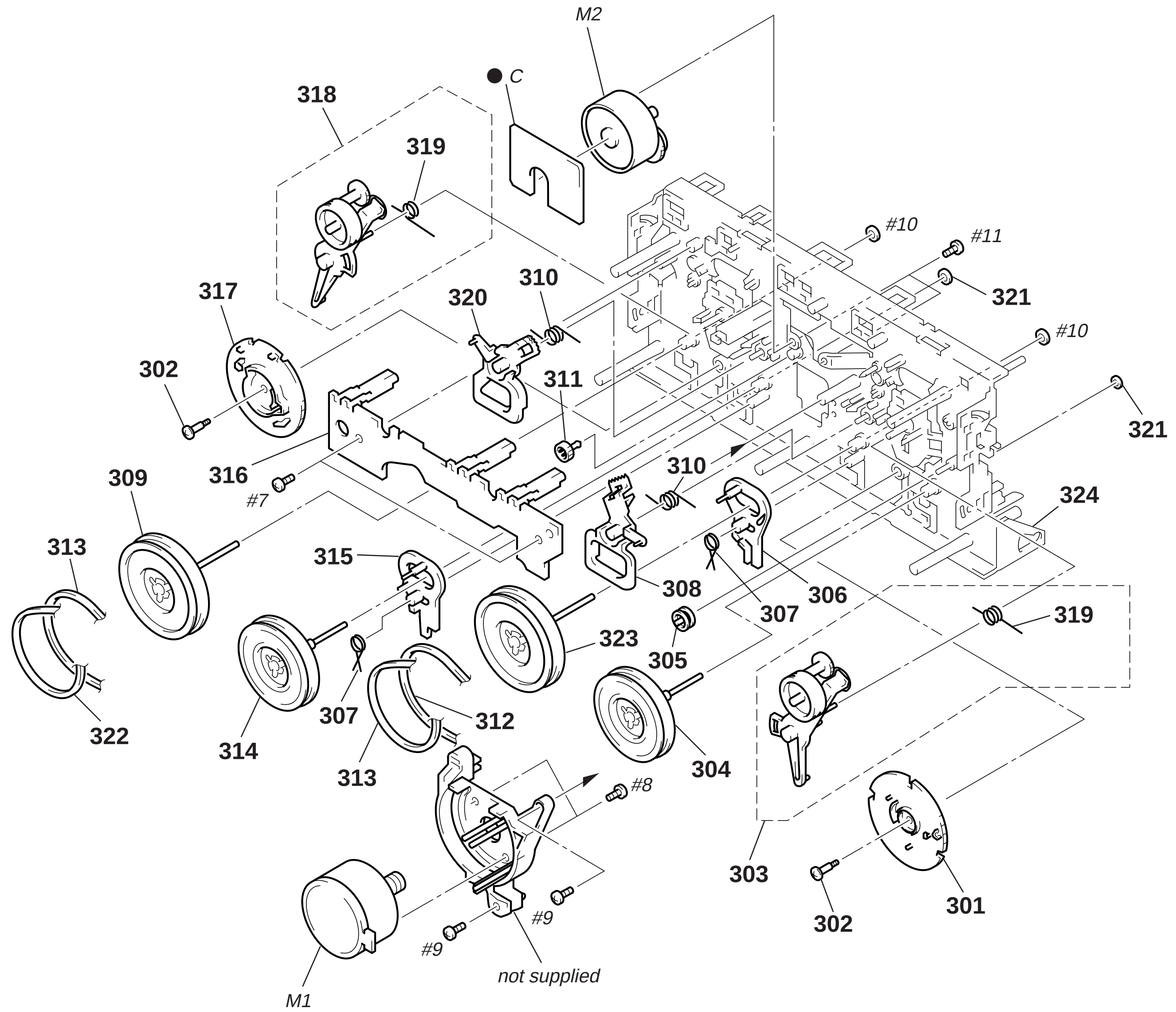


Ref. No.	Part No.	Description	Remarks
251	3-908-560-01	SPRING, AZIMUTH ADJUSTMENT	
252	3-919-684-01	SCREW, AZIMUTH ADJUSTMENT	
253	X-3373-113-1	SLIDER (HEAD) ASSY	
254	3-908-556-01	SPRING, HEAD TOGGLE	
255	3-908-558-02	FITTING BLOCK, HEAD	
256	3-908-557-02	ROTARY BLOCK, HEAD	
* 257	3-908-559-01	STOPPER, AZIMUTH	
258	3-908-555-01	SLIDER (REV SLIDER)	
259	3-917-143-11	SPRING, TENSION	
260	3-388-848-01	SCREW (P2X6) (B TIGHT)	
261	3-939-371-01	SPRING (1), TENSION	
262	X-3369-909-1	PINCH LEVER (REV) ASSY	
263	X-3369-908-1	PINCH LEVER (FWD) ASSY	

Ref. No.	Part No.	Description	Remarks
264	3-908-613-01	GEAR (S), REEL	
265	3-917-141-01	SPRING, COMPRESSION	
266	X-3371-305-1	REEL (T) ASSY	
267	3-669-465-01	WASHER (1.5), STOPPER	
268	X-3370-173-1	TU ASSY	
269	3-911-116-21	RIVET, PUSH	
* 271	A-2007-131-A	AUDIO BOARD, COMPLETE	
272	3-930-972-01	DETENT, HALF	
273	3-917-142-01	SPRING, COMPRESSION	
274	3-911-116-11	RIVET, PUSH	
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK) (DECK A)	
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE) (DECK B)	

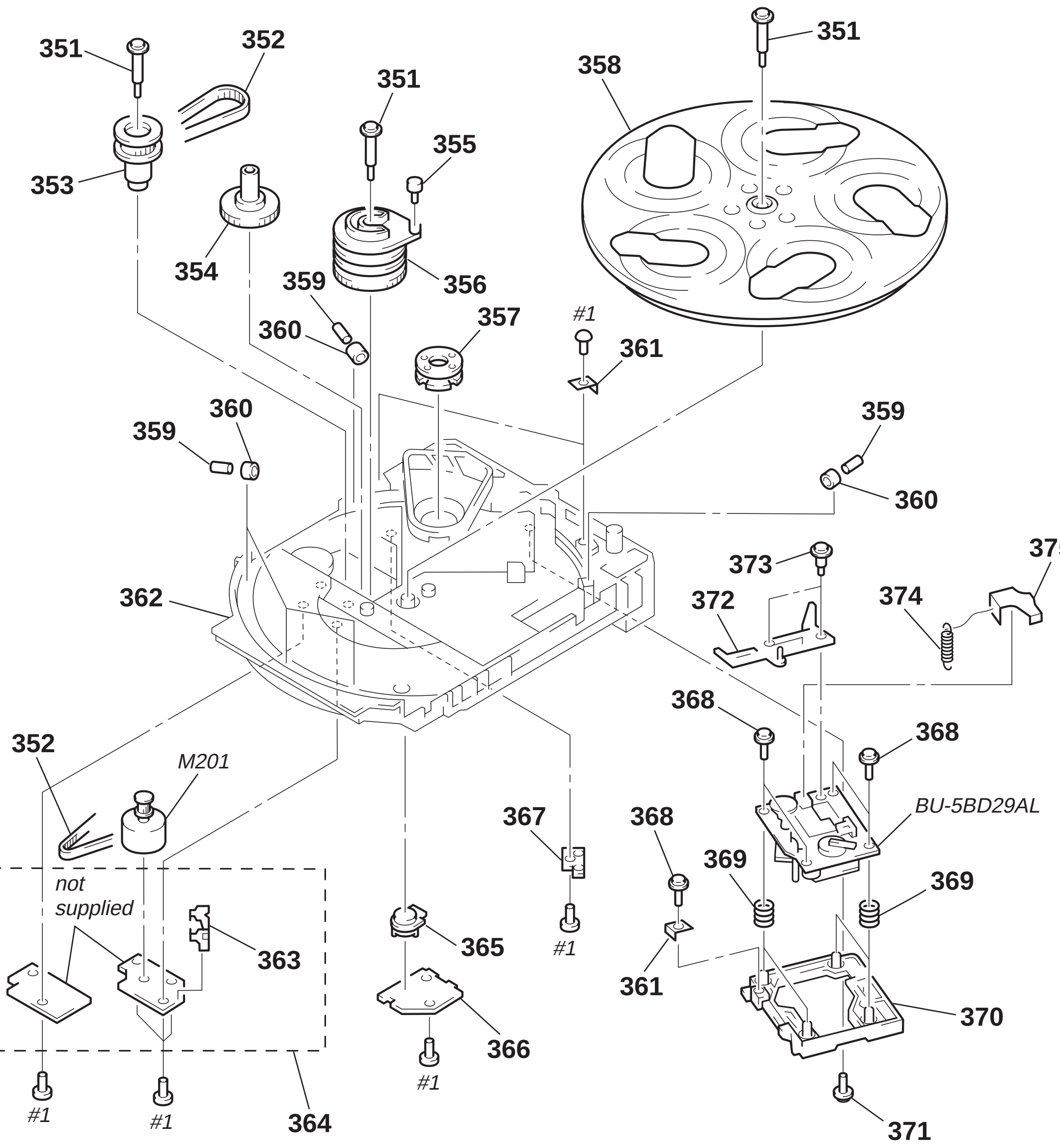
7-7. TAPE MECHANISM DECK SECTION-3 (TCM-220WR2)

● C : MOTOR board (supplied with AUDIO board)



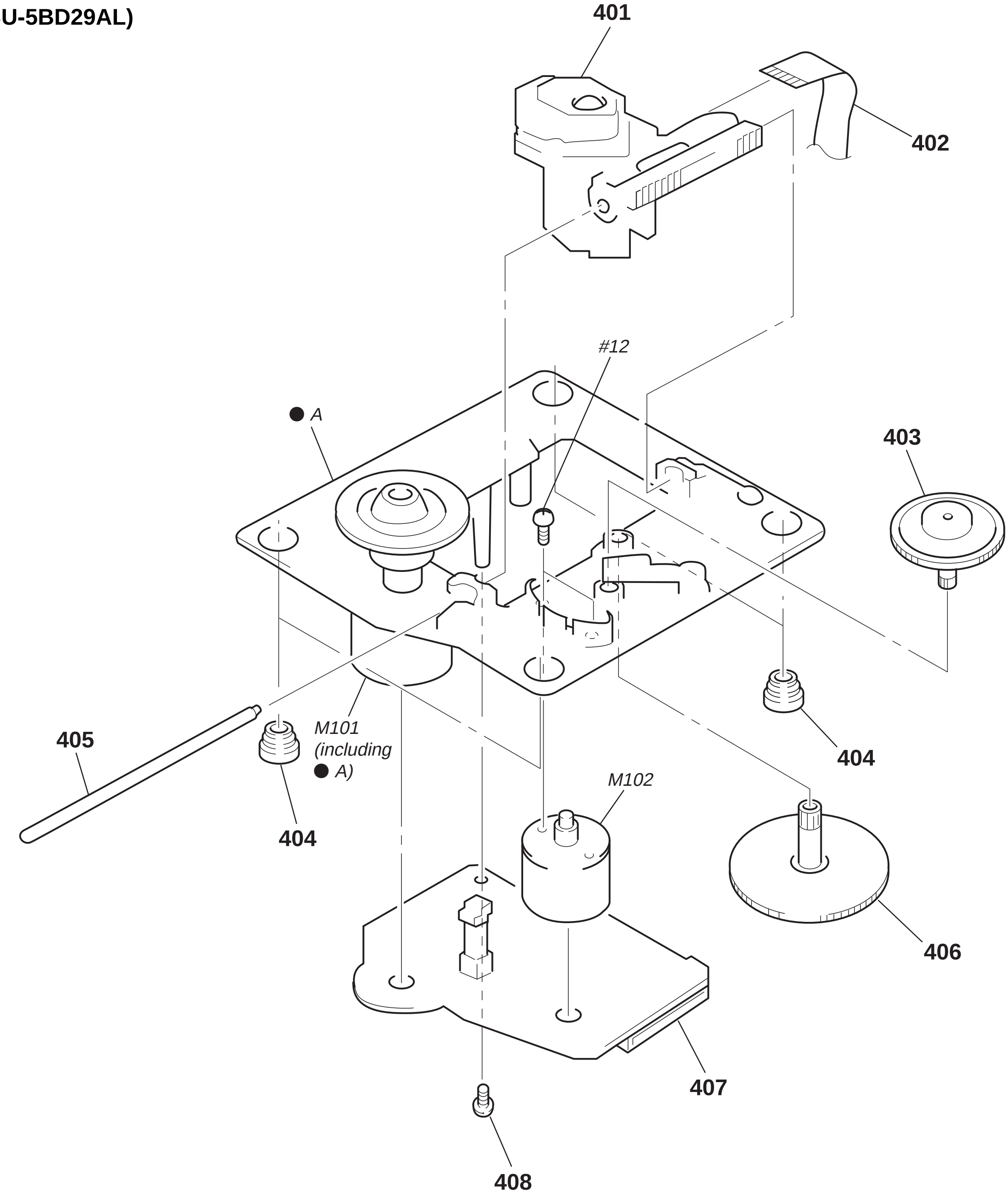
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
301	3-908-597-01	CAM (A)		314	X-3370-171-1	FLYWHEEL (BR) ASSY	
302	3-908-608-11	SCREW, STEP		315	3-908-600-01	LEVER (REV-B)	
303	X-3372-930-1	ARM (A) ASSY, FR		* 316	1-650-669-11	LEAF SWITCH BOARD	
304	X-3370-169-1	FLYWHEEL (AR) ASSY		317	3-908-598-01	CAM (B)	
305	3-928-047-01	PULLEY, TENSION		318	X-3372-931-1	ARM (B) ASSY, FR	
306	3-908-599-01	LEVER (REV-A)		319	3-914-111-01	SPRING (FR), TORSION	
307	3-908-601-01	SPRING (REV LEVER), TORSION		320	3-908-604-01	LEVER (TRIGGER B)	
308	3-908-603-01	LEVER (TRIGGER A)		321	3-911-115-01	WASHER, STOPPER	
309	X-3367-593-1	FLYWHEEL (BF) ASSY		322	3-917-176-11	BELT (B)	
310	3-908-605-01	SPRING (TRIGGER), TORSION		323	X-3370-172-1	FLYWHEEL (AF) ASSY	
311	3-908-609-01	GEAR, TRIGGER		324	X-3371-441-1	CHASSIS ASSY, MECHANICAL	
312	3-913-845-11	BELT (A)		M1	X-3371-223-1	MOTOR ASSY, CAPSTAN	
313	3-913-846-11	BELT (FR)		M2	A-2004-410-A	MOTOR ASSY, DC (TRIGGER)	

7-8. CD MECHANISM DECK SECTION (CDM37L-5BD29AL)



Ref. No.	Part No.	Description	Remarks
351	4-987-976-01	SCREW, STEP	
352	4-944-490-01	BELT (TIMING)	
353	A-4660-978-A	GEAR (PULLEY) ASSY	
354	4-978-421-01	GEAR (MID)	
355	4-978-425-01	ROLLER (CAM)	
356	4-978-420-01	CAM (HOLDER)	
357	1-452-538-11	MAGNET	
358	4-978-417-01	TABLE, DISC	
359	4-934-376-01	SHAFT (ROLLER)	
360	X-4924-457-1	ROLLER ASSY	
* 361	4-978-583-01	BRACKET (BU)	
* 362	4-978-418-01	CHASSIS	
* 363	4-980-385-01	HOLDER (SW)	
* 364	A-4673-765-A	CD MOTOR BOARD, COMPLETE	
365	4-978-426-01	INDICATOR (NO.)	
* 366	1-659-059-13	BD LED BOARD	
* 367	1-659-058-13	TABLE SENSOR BOARD	
368	4-933-134-01	SCREW (+PTPWH M2.6 × 6)	
369	4-958-593-01	SPRING (BU), COMPRESSION	
* 370	4-978-419-01	HOLDER (BU–5)	
371	4-917-583-71	BRACKET, YOKE	
372	4-989-493-01	SLIDER (37)	
373	4-989-494-01	SCREW (SLIDER), STEP	
374	4-989-819-01	SPRING, TENSION	
375	4-989-491-21	COVER, LENS	
M201	A-4660-977-A	MOTOR ASSY (TABLE)	

7-9. BASE UNIT SECTION (BU-5BD29AL)



Ref. No.	Part No.	Description	Remarks
⚠401	8-820-020-01	OPTICAL PICK-UP KSS-213D/Q-NP	
402	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
403	4-917-567-21	GEAR (M)	
404	4-951-940-01	INSULATOR (BU)	
405	4-917-565-01	SHAFT, SLED	
406	4-917-564-01	GEAR (P), FLATNESS	
* 407	A-4699-522-A	BD BOARD, COMPLETE	
408	4-951-620-01	SCREW (2.6 × 8), +BVTP	
M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

AUDIO

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Abbreviation
  AR : Argentine
  AUS : Australian
  CND : Canadian
  EE : East European
  MX : Mexican
  SAF : South African

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: μF

- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: μH
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA... , uPA... , μPA... ,
  uPB... , μPB... , uPC... , μPC... ,
  uPD..., μPD...

Ref. No.	Part No.	Description			Remarks
*	A-2007-131-A	AUDIO BOARD, COMPLETE			
		**********************			
		(including MOTOR BOARD)			
		< CAPACITOR >			
C301	1-162-289-31	CERAMIC	390PF	10%	50V
C302	1-126-968-11	ELECT	100uF	20%	6.3V
C303	1-162-282-31	CERAMIC	100PF	10%	50V
C304	1-130-483-00	MYLAR	0.01uF	5%	50V
C305	1-107-715-11	ELECT	22uF	20%	16V
C311	1-162-289-31	CERAMIC	390PF	10%	50V
C313	1-162-282-31	CERAMIC	100PF	10%	50V
C314	1-130-487-00	MYLAR	0.022uF	5%	50V
C315	1-126-233-11	ELECT	22uF	20%	25V
C331	1-137-427-11	FILM	120PF	5%	50V
C332	1-162-288-31	CERAMIC	330PF	10%	50V
C333	1-162-209-31	CERAMIC	27PF	5%	50V
C401	1-162-289-31	CERAMIC	390PF	10%	50V
C402	1-126-968-11	ELECT	100uF	20%	6.3V
C403	1-162-282-31	CERAMIC	100PF	10%	50V
C404	1-130-483-00	MYLAR	0.01uF	5%	50V
C405	1-107-715-11	ELECT	22uF	20%	16V
C411	1-162-289-31	CERAMIC	390PF	10%	50V
C413	1-162-282-31	CERAMIC	100PF	10%	50V
C414	1-130-487-00	MYLAR	0.022uF	5%	50V
C415	1-126-233-11	ELECT	22uF	20%	25V
C431	1-137-427-11	FILM	120PF	5%	50V
C432	1-162-288-31	CERAMIC	330PF	10%	50V
C433	1-162-209-31	CERAMIC	27PF	5%	50V
C601	1-104-396-11	ELECT	10uF	20%	16V
C602	1-104-396-11	ELECT	10uF	20%	16V
C611	1-124-907-11	ELECT	10uF	20%	50V
C612	1-124-907-11	ELECT	10uF	20%	50V
C621	1-137-150-11	FILM	0.01uF	5%	100V
C622	1-126-961-11	ELECT	2.2uF	20%	50V
C623	1-136-155-00	FILM	0.015uF	5%	50V
C624	1-130-481-00	MYLAR	0.0068uF	5%	50V
C625	1-130-481-00	MYLAR	0.0068uF	5%	50V
C627	1-124-903-11	ELECT	1uF	20%	50V
C628	1-136-153-00	FILM	0.01uF	5%	50V
C642	1-104-664-11	ELECT	47uF	20%	16V
C651	1-161-494-00	CERAMIC	0.022uF		25V

Ref. No.	Part No.	Description			Remarks
		< CONNECTOR >			
CN601	1-695-382-31	PIN, CONNECTOR (PC BOARD) 21P			
CN602	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			
* CN651	1-564-521-11	PLUG, CONNECTOR 6P			
		< IC >			
IC601	8-759-111-44	IC uPC4570C-1			
IC602	8-759-143-54	IC uPC1330HA			
IC611	8-759-111-44	IC uPC4570C-1			
		< COIL >			
L331	1-410-780-11	INDUCTOR	27mH		
L431	1-410-780-11	INDUCTOR	27mH		
		< TRANSISTOR >			
Q621	8-729-142-46	TRANSISTOR	2SC2001-LK		
Q622	8-729-142-46	TRANSISTOR	2SC2001-LK		
Q623	8-729-801-93	TRANSISTOR	2SD1387		
Q651	8-729-900-65	TRANSISTOR	DTA144ES		
		< RESISTOR >			
R301	1-247-881-00	CARBON	120K	5%	1/4W
R302	1-249-409-11	CARBON	220	5%	1/4W
R303	1-249-433-11	CARBON	22K	5%	1/4W
R304	1-247-889-00	CARBON	270K	5%	1/4W
R305	1-247-858-11	CARBON	13K	5%	1/4W
R311	1-247-881-00	CARBON	120K	5%	1/4W
R312	1-247-807-31	CARBON	100	5%	1/4W
R314	1-247-882-11	CARBON	130K	5%	1/4W
R315	1-247-850-11	CARBON	6.2K	5%	1/4W
R331	1-249-430-11	CARBON	12K	5%	1/4W
R401	1-247-881-00	CARBON	120K	5%	1/4W
R402	1-249-409-11	CARBON	220	5%	1/4W
R403	1-249-433-11	CARBON	22K	5%	1/4W
R404	1-247-889-00	CARBON	270K	5%	1/4W
R405	1-247-858-11	CARBON	13K	5%	1/4W
R411	1-247-881-00	CARBON	120K	5%	1/4W
R412	1-247-807-31	CARBON	100	5%	1/4W
R414	1-247-882-11	CARBON	130K	5%	1/4W
R415	1-247-850-11	CARBON	6.2K	5%	1/4W
R431	1-249-430-11	CARBON	12K	5%	1/4W
R601	1-249-409-11	CARBON	220	5%	1/4W
R602	1-249-409-11	CARBON	220	5%	1/4W
R608	1-249-409-11	CARBON	220	5%	1/4W
R609	1-249-433-11	CARBON	22K	5%	1/4W
R611	1-249-409-11	CARBON	220	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R612	1-249-409-11	CARBON	220	5%	1/4W
⚠R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W F
⚠R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W F
R623	1-249-432-11	CARBON	18K	5%	1/4W
R624	1-249-432-11	CARBON	18K	5%	1/4W
R625	1-249-429-11	CARBON	10K	5%	1/4W
R651	1-247-856-00	CARBON	11K	5%	1/4W
R652	1-247-856-00	CARBON	11K	5%	1/4W
R653	1-249-441-11	CARBON	100K	5%	1/4W
		< VARIABLE RESISTOR >			
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV341	1-238-551-11	RES, ADJ, CARBON 220K			
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV441	1-238-551-11	RES, ADJ, CARBON 220K			
RV651	1-238-599-11	RES, ADJ, CARBON 4.7K			
RV652	1-238-599-11	RES, ADJ, CARBON 4.7K			
		< TRANSFORMER >			
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION			

****

Ref. No.	Part No.	Description			Remarks
*	A-4699-522-A	BD BOARD, COMPLETE			
		*******************			
		< CAPACITOR >			
C101	1-126-607-11	ELECT CHIP	47uF	20%	4V
C102	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C103	1-164-346-11	CERAMIC CHIP	1uF		16V
C105	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C106	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C107	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C108	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C109	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C110	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C111	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C112	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C113	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C114	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V
C116	1-163-016-00	CERAMIC CHIP	0.0039uF	10%	50V
C117	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C118	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C119	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C120	1-124-779-00	ELECT CHIP	10uF	20%	16V
C121	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C122	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C123	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C124	1-126-607-11	ELECT CHIP	47uF	20%	4V
C125	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C126	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C127	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C128	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C129	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C130	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C131	1-164-346-11	CERAMIC CHIP	1uF		16V

Ref. No.	Part No.	Description			Remarks
C140	1-110-501-11	CERAMIC CHIP	0.33uF		50V
C154	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C161	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C162	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C163	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C164	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C165	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C166	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C167	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C168	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C169	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C170	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C171	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C173	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C174	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C175	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C176	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C177	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C178	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C179	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C181	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C182	1-126-393-11	ELECT	33uF	20%	10V
C183	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C185	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C188	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C189	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
		< CONNECTOR >			
CNU101	1-770-014-11	CONNECTOR, FFC/FPC 16P			
CNU102	1-778-874-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P			
		< FERRITE BEAD >			
FB101	1-414-234-11	INDUCTOR, FERRITE BEAD			
FB103	1-414-234-11	INDUCTOR, FERRITE BEAD			
		< IC >			
IC101	8-752-080-62	IC CXA1992AR			
IC102	8-759-429-32	IC BA5941FP-E2			
IC103	8-752-378-66	IC CXD2519Q			
		< JUMPER RESISTOR >			
JW101	1-216-295-91	CONDUCTOR, CHIP (2012)			
JW104	1-216-295-91	CONDUCTOR, CHIP (2012)			
		< TRANSISTOR >			
Q101	8-729-010-08	TRANSISTOR MSB710-R			
		< RESISTOR >			
R102	1-216-001-00	METAL CHIP	10	5%	1/10W
R104	1-216-093-00	METAL CHIP	68K	5%	1/10W
R105	1-216-088-00	METAL CHIP	43K	5%	1/10W
R106	1-216-088-00	METAL CHIP	43K	5%	1/10W
R107	1-216-088-00	METAL CHIP	43K	5%	1/10W

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

BD **BD LED** **CD MOTOR**

Ref. No.	Part No.	Description			Remarks
R108	1-216-088-00	METAL CHIP	43K	5%	1/10W
R109	1-216-093-00	METAL CHIP	68K	5%	1/10W
R114	1-216-101-00	METAL CHIP	150K	5%	1/10W
R115	1-216-101-00	METAL CHIP	150K	5%	1/10W
R116	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R117	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R118	1-216-063-91	METAL CHIP	3.9K	5%	1/10W
R119	1-216-085-00	METAL CHIP	33K	5%	1/10W
R120	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R121	1-216-114-00	METAL GLAZE	510K	5%	1/10W
R122	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R123	1-216-099-00	METAL CHIP	120K	5%	1/10W
R124	1-216-091-00	METAL CHIP	56K	5%	1/10W
R125	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R126	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R127	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R128	1-216-098-00	METAL CHIP	110K	5%	1/10W
R129	1-216-025-91	METAL GLAZE	100	5%	1/10W
R130	1-216-079-00	METAL CHIP	18K	5%	1/10W
R131	1-216-079-00	METAL CHIP	18K	5%	1/10W
R132	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R133	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R134	1-216-065-91	METAL CHIP	4.7K	5%	1/10W
R135	1-216-065-91	METAL CHIP	4.7K	5%	1/10W
R136	1-216-073-00	METAL CHIP	10K	5%	1/10W
R137	1-216-065-91	METAL CHIP	4.7K	5%	1/10W
R138	1-216-025-91	METAL GLAZE	100	5%	1/10W
R156	1-216-081-00	METAL CHIP	22K	5%	1/10W
R157	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R158	1-216-001-00	METAL CHIP	10	5%	1/10W
R159	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R161	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R162	1-216-073-00	METAL CHIP	10K	5%	1/10W
R163	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R164	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R165	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R166	1-216-073-00	METAL CHIP	10K	5%	1/10W
R167	1-216-081-00	METAL CHIP	22K	5%	1/10W
R168	1-216-073-00	METAL CHIP	10K	5%	1/10W
R169	1-216-079-00	METAL CHIP	18K	5%	1/10W
R170	1-216-081-00	METAL CHIP	22K	5%	1/10W
R171	1-216-073-00	METAL CHIP	10K	5%	1/10W
R172	1-216-079-00	METAL CHIP	18K	5%	1/10W
R173	1-216-025-91	METAL GLAZE	100	5%	1/10W
R174	1-216-033-00	METAL CHIP	220	5%	1/10W
R175	1-216-025-91	METAL GLAZE	100	5%	1/10W
R176	1-216-025-91	METAL GLAZE	100	5%	1/10W
R177	1-216-025-91	METAL GLAZE	100	5%	1/10W
R178	1-216-025-91	METAL GLAZE	100	5%	1/10W
R179	1-216-025-91	METAL GLAZE	100	5%	1/10W
R180	1-216-025-91	METAL GLAZE	100	5%	1/10W
R181	1-216-025-91	METAL GLAZE	100	5%	1/10W
R188	1-216-037-00	METAL CHIP	330	5%	1/10W
R190	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R191	1-216-105-91	METAL GLAZE	220K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF			
		< VIBRATOR >			
X101	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)			

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Ref. No.	Part No.	Description			Remarks
*	1-659-059-13	BD LED BOARD			
		************			
		< DIODE >			
D201	8-719-032-98	DIODE SEL5820A			
		< TRANSISTOR >			
Q201	8-729-119-78	TRANSISTOR 2SC403SP-51			
		< RESISTOR >			
R201	1-247-863-91	CARBON	22K	5%	1/4W
R202	1-249-411-11	CARBON	330	5%	1/4W
R203	1-249-437-11	CARBON	47K	5%	1/4W

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Ref. No.	Part No.	Description			Remarks
*	A-4673-765-A	CD MOTOR BOARD, COMPLETE			
		**************************			
*	4-980-385-01	HOLDER (SW)			
		< CAPACITOR >			
C201	1-124-907-11	ELECT	10uF	20%	50V
C202	1-164-159-21	CERAMIC	0.1uF		50V
C203	1-124-907-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
* CN201	1-568-947-11	PIN, CONNECTOR 9P			
		< IC >			
IC201	8-759-365-94	IC TA8409S			
		< COIL >			
L201	1-408-117-00	INDUCTOR	10uH		
		< RESISTOR >			
R205	1-249-427-11	CARBON	6.8K	5%	1/4W
R206	1-249-425-11	CARBON	4.7K	5%	1/4W
		< SWITCH >			
S201	1-762-587-11	SWITCH, PUSH (1 KEY)			

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Ref. No.	Part No.	Description			Remarks	
*	1-669-630-11	CD-A SW BOARD				
		**************				
		< DIODE >				
D641	8-719-058-04	DIODE SEL5223S-TP15 (NON-STOP)				
		< RESISTOR >				
R731	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R732	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R733	1-249-429-11	CARBON	10K	5%	1/4W	
R734	1-249-432-11	CARBON	18K	5%	1/4W	
R735	1-249-436-11	CARBON	39K	5%	1/4W	
R736	1-247-881-00	CARBON	120K	5%	1/4W	
R737	1-247-881-00	CARBON	120K	5%	1/4W	
R741	1-247-807-31	CARBON	100	5%	1/4W	
		< SWITCH >				
S661	1-554-303-21	SWITCH, TACTILE (DISC 1)				
S662	1-554-303-21	SWITCH, TACTILE (DISC 2)				
S663	1-554-303-21	SWITCH, TACTILE (DISC 3)				
S664	1-554-303-21	SWITCH, TACTILE (DISC 4)				
S665	1-554-303-21	SWITCH, TACTILE (DISC 5)				
S666	1-554-303-21	SWITCH, TACTILE (FLASH)				
S667	1-554-303-21	SWITCH, TACTILE (NON-STOP)				
S668	1-554-303-21	SWITCH, TACTILE (LOOP)				

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Ref. No.	Part No.	Description			Remarks	
*	1-669-631-11	CD-B1 SW BOARD				
		**************				
		< CONNECTOR >				
* CN642	1-568-943-11	PIN, CONNECTOR 5P				
		< DIODE >				
D645	8-719-057-10	DIODE LNJ301MPUJAB (▷ CD PLAY)				
D646	8-719-057-97	DIODE SEL5923A-TP15 (❚❚ PAUSE)				
D647	8-719-057-10	DIODE LNJ301MPUJAB (▷ CD PLAY)				
		< RESISTOR >				
R745	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R746	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R747	1-247-843-11	CARBON	3.3K	5%	1/4W	
R748	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R749	1-247-807-31	CARBON	100	5%	1/4W	
R750	1-247-807-31	CARBON	100	5%	1/4W	
R751	1-247-807-31	CARBON	100	5%	1/4W	
		< SWITCH >				
S676	1-554-303-21	SWITCH, TACTILE (▷)				
S677	1-554-303-21	SWITCH, TACTILE (■)				
S678	1-554-303-21	SWITCH, TACTILE (❚❚)				
S679	1-554-303-21	SWITCH, TACTILE (DISC SKIP)				

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Ref. No.	Part No.	Description			Remarks	
*	1-669-632-11	CD-B2 SW BOARD				
		***************				
		< RESISTOR >				
R752	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R753	1-249-429-11	CARBON	10K	5%	1/4W	
R754	1-249-432-11	CARBON	18K	5%	1/4W	
R755	1-249-436-11	CARBON	39K	5%	1/4W	
R756	1-247-881-00	CARBON	120K	5%	1/4W	
		< SWITCH >				
S681	1-554-303-21	SWITCH, TACTILE (▷▷)				
S682	1-554-303-21	SWITCH, TACTILE (REPEAT)				
S683	1-554-303-21	SWITCH, TACTILE (PLAY MODE)				
S684	1-554-303-21	SWITCH, TACTILE (1/ALL DISCS)				
S685	1-554-303-21	SWITCH, TACTILE (EDIT)				
S686	1-554-303-21	SWITCH, TACTILE (◁◁)				
S711	1-467-968-11	ENCODER, ROTARY (I◁◁ AMS ▷▷I)				

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Ref. No.	Part No.	Description			Remarks
*	1-664-016-11	DOOR SW BOARD			
		***************			
		< CAPACITOR >			
C691	1-164-159-21	CERAMIC	0.1uF	50V	
		< CONNECTOR >			
CN661	1-506-481-11	PIN, CONNECTOR 2P			
		< SWITCH >			
S691	1-771-057-11	SWITCH, PUSH (1 KEY) (⏏ OPEN)			

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Ref. No.	Part No.	Description			Remarks
*	A-4392-452-A	HEADPHONE-MIC BOARD, COMPLETE			
		*******************************			
		< CAPACITOR >			
C760	1-162-306-11	CERAMIC	0.01uF	20%	16V
C761	1-126-961-11	ELECT	2.2uF	20%	50V
C764	1-162-294-31	CERAMIC	0.001uF	10%	50V
C765	1-162-215-31	CERAMIC	47PF	5%	50V
C766	1-162-290-31	CERAMIC	470PF	10%	50V
C767	1-162-215-31	CERAMIC	47PF	5%	50V
C769	1-162-282-31	CERAMIC	100PF	10%	50V
C770	1-126-961-11	ELECT	2.2uF	20%	50V
C771	1-126-959-11	ELECT	0.47uF	20%	50V
C773	1-126-964-11	ELECT	10uF	20%	50V
C774	1-126-964-11	ELECT	10uF	20%	50V
C775	1-162-294-31	CERAMIC	0.001uF	10%	50V
C776	1-162-294-31	CERAMIC	0.001uF	10%	50V
C794	1-164-159-21	CERAMIC	0.1uF		50V
C795	1-164-159-21	CERAMIC	0.1uF		50V
C797	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C798	1-164-159-21	CERAMIC	0.1uF		50V
C799	1-164-159-21	CERAMIC	0.1uF		50V

HEADPHONE-MIC | LEAF SWITCH | LED | MAIN

Ref. No.	Part No.	Description	Remarks
		< CONNECTOR >	
* CN701	1-568-935-11	PIN, CONNECTOR 8P	
		< IC >	
IC760	8-759-634-51	IC M5218AP	
		< JACK >	
J760	1-770-226-41	JACK (LARGE TYPE) (PHONES)	
J761	1-770-226-41	JACK (LARGE TYPE) (MIC)	
		< RESISTOR >	
R760	1-249-429-11	CARBON 10K 5% 1/4W	
R761	1-249-417-11	CARBON 1K 5% 1/4W	F
R764	1-249-441-11	CARBON 100K 5% 1/4W	
R765	1-249-417-11	CARBON 1K 5% 1/4W	F
R766	1-247-863-91	CARBON 22K 5% 1/4W	
R767	1-249-429-11	CARBON 10K 5% 1/4W	
R769	1-247-885-00	CARBON 180K 5% 1/4W	
R770	1-247-807-31	CARBON 100 5% 1/4W	
		< VARIABLE RESISTOR >	
RV760	1-225-366-11	RES, VAR, CARBON 50K (MIC LEVEL)	

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Ref. No.	Part No.	Description	Remarks
*	1-650-669-11	LEAF SWITCH BOARD *****************	
		< CONNECTOR >	
* CN1001	1-568-854-11	SOCKET, CONNECTOR 11P	
CN1001	1-695-372-31	PIN, CONNECTOR (PC BOARD) 11P	
		< TRANSISTOR >	
Q1001	8-749-010-90	TRANSISTOR PHOTO REFLECTOR	NJL5165KA-H
Q1002	8-749-010-90	TRANSISTOR PHOTO REFLECTOR	NJL5165KA-H
		< RESISTOR >	
R1001	1-247-818-11	CARBON 300 5% 1/4W	
R1002	1-247-820-11	CARBON 360 5% 1/4W	
R1003	1-249-414-11	CARBON 560 5% 1/4W	
R1004	1-247-834-11	CARBON 1.3K 5% 1/4W	
R1005	1-247-818-11	CARBON 300 5% 1/4W	
		< SWITCH >	
S1001	1-692-832-11	SWITCH, PUSH (1 KEY) (A PLAY)	
S1002	1-692-832-11	SWITCH, PUSH (1 KEY) (B PLAY)	
S1004	1-571-281-21	SWITCH, LEAF (A HALF)	
S1005	1-571-281-21	SWITCH, LEAF (A CrO2)	
S1006	1-572-248-11	SWITCH, LEAF (REC A)	
S1007	1-572-248-11	SWITCH, LEAF (B HALF)	
S1008	1-571-281-21	SWITCH, LEAF (B CrO2)	
S1009	1-571-281-21	SWITCH, LEAF (REC B)	

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Ref. No.	Part No.	Description	Remarks
*	1-664-017-11	LED BOARD **********	
		< CONNECTOR >	
CN671	1-506-481-11	PIN, CONNECTOR 2P	
		< DIODE >	
D671	8-719-058-03	DIODE SEL5423E-TP15	
D672	8-719-058-03	DIODE SEL5423E-TP15	
D673	8-719-058-03	DIODE SEL5423E-TP15	
D674	8-719-058-03	DIODE SEL5423E-TP15	
		< RESISTOR >	
R791	1-249-412-11	CARBON 390 5% 1/4W	F

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Ref. No.	Part No.	Description	Remarks
*	A-4392-438-A	MAIN BOARD, COMPLETE (D390/G5500) *********************	
*	A-4392-474-A	MAIN BOARD, COMPLETE (D790) *********************	
*	A-4403-870-A	MAIN BOARD, COMPLETE (XB60: AEP, UK) *********************	
*	A-4403-890-A	MAIN BOARD, COMPLETE (XB44: E, AR, MX) *********************	
*	A-4403-894-A	MAIN BOARD, COMPLETE (XB50: AEP, UK) *********************	
*	A-4403-909-A	MAIN BOARD, COMPLETE (XB33: E, AR, MX) *********************	
*	A-4407-353-A	MAIN BOARD, COMPLETE (XB50: EE, CIS) *********************	
*	A-4407-358-A	MAIN BOARD, COMPLETE (XB60: EE, CIS) *********************	
*	A-4407-361-A	MAIN BOARD, COMPLETE (XB44: SAF, AUS) *********************	
*	A-4407-364-A	MAIN BOARD, COMPLETE (XB33: SAF, AUS) *********************	
*	4-870-539-11	PLATE, GROUND	
	7-685-646-79	SCREW +BVTP 3 × 8 TYPE2 N-S	
		< CAPACITOR >	
C100	1-164-159-21	CERAMIC 0.1uF 50V	
C101	1-162-288-31	CERAMIC 330PF 10% 50V	(XB50/XB60)
C102	1-162-282-31	CERAMIC 100PF 10% 50V	
C103	1-162-282-31	CERAMIC 100PF 10% 50V	
C104	1-126-961-11	ELECT 2.2uF 20% 50V	
C105	1-162-600-11	CERAMIC 0.0047uF 30% 16V	
C106	1-162-301-11	CERAMIC 0.0015uF 30% 16V	
C107	1-126-956-91	ELECT 0.1uF 20% 50V	
C108	1-126-967-11	ELECT 47uF 20% 10V	(XB50/XB60)
C121	1-162-286-21	CERAMIC 220PF 10% 50V	
C122	1-162-286-21	CERAMIC 220PF 10% 50V	(XB33/XB44/XB50/XB60)
C123	1-162-306-11	CERAMIC 0.01uF 20% 16V	
C131	1-136-495-11	FILM 0.068uF 5% 50V	(XB50/XB60)
C132	1-136-495-11	FILM 0.068uF 5% 50V	(XB50/XB60)
C133	1-164-159-21	CERAMIC 0.1uF 50V	(XB50/XB60)

Ref. No.	Part No.	Description				Remarks
C134	1-164-159-21	CERAMIC	0.1uF		50V	(XB50/XB60)
C151	1-162-288-31	CERAMIC	330PF	10%	50V	(XB50/XB60)
C152	1-162-282-31	CERAMIC	100PF	10%	50V	
C153	1-162-282-31	CERAMIC	100PF	10%	50V	
C154	1-126-961-11	ELECT	2.2uF	20%	50V	
C155	1-162-600-11	CERAMIC	0.0047uF	30%	16V	
C156	1-162-301-11	CERAMIC	0.0015uF	30%	16V	
C157	1-126-956-91	ELECT	0.1uF	20%	50V	
C158	1-126-967-11	ELECT	47uF	20%	10V	(XB50/XB60)
C171	1-162-286-21	CERAMIC	220PF	10%	50V	
C172	1-162-286-21	CERAMIC	220PF	10%	50V	(XB33/XB44/XB50/XB60)
C173	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C181	1-136-495-11	FILM	0.068uF	5%	50V	(XB50/XB60)
C182	1-136-495-11	FILM	0.068uF	5%	50V	(XB50/XB60)
C183	1-164-159-21	CERAMIC	0.1uF		50V	(XB50/XB60)
C184	1-164-159-21	CERAMIC	0.1uF		50V	(XB50/XB60)
C191	1-126-963-11	ELECT	4.7uF	20%	50V	(XB44)
C192	1-164-159-21	CERAMIC	0.1uF		50V	(XB44)
C201	1-136-167-00	FILM	0.15uF	5%	50V	(D790/XB44/XB60)
C201	1-136-169-00	FILM	0.22uF	5%	50V	(D390/G5500/XB33/XB50)
C202	1-136-167-00	FILM	0.15uF	5%	50V	(D790/XB44/XB60)
C202	1-136-169-00	FILM	0.22uF	5%	50V	(D390/G5500/XB33/XB50)
C203	1-130-493-00	MYLAR	0.068uF	5%	50V	
C204	1-130-493-00	MYLAR	0.068uF	5%	50V	
C205	1-130-486-00	MYLAR	0.018uF	10%	50V	
C206	1-130-486-00	MYLAR	0.018uF	10%	50V	
C207	1-130-480-00	MYLAR	0.0056uF	5%	50V	
C208	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C209	1-130-474-00	MYLAR	0.0018uF	5%	50V	
C210	1-126-964-11	ELECT	10uF	20%	50V	
C211	1-126-964-11	ELECT	10uF	20%	50V	
C212	1-130-483-00	MYLAR	0.01uF	5%	50V	
C213	1-136-169-00	FILM	0.22uF	5%	50V	
C214	1-136-169-00	FILM	0.22uF	5%	50V	
C215	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C216	1-136-167-00	FILM	0.15uF	5%	50V	
C221	1-126-967-11	ELECT	47uF	20%	10V	
C222	1-126-967-11	ELECT	47uF	20%	10V	
C223	1-126-964-11	ELECT	10uF	20%	50V	
C224	1-162-290-31	CERAMIC	470PF	10%	50V	
C226	1-126-964-11	ELECT	10uF	20%	50V	
C231	1-109-889-11	ELECT	1uF	20%	50V	
C251	1-136-167-00	FILM	0.15uF	5%	50V	(D790/XB44/XB60)
C251	1-136-169-00	FILM	0.22uF	5%	50V	(D390/G5500/XB33/XB50)
C252	1-136-167-00	FILM	0.15uF	5%	50V	(D790/XB44/XB60)
C252	1-136-169-00	FILM	0.22uF	5%	50V	(D390/G5500/XB33/XB50)

Ref. No.	Part No.	Description				Remarks
C253	1-130-493-00	MYLAR	0.068uF	5%	50V	
C254	1-130-493-00	MYLAR	0.068uF	5%	50V	
C255	1-130-486-00	MYLAR	0.018uF	10%	50V	
C256	1-130-486-00	MYLAR	0.018uF	10%	50V	
C257	1-130-480-00	MYLAR	0.0056uF	5%	50V	
C258	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C259	1-130-474-00	MYLAR	0.0018uF	5%	50V	
C260	1-126-964-11	ELECT	10uF	20%	50V	
C261	1-126-964-11	ELECT	10uF	20%	50V	
C262	1-130-483-00	MYLAR	0.01uF	5%	50V	
C263	1-136-169-00	FILM	0.22uF	5%	50V	
C264	1-136-169-00	FILM	0.22uF	5%	50V	
C276	1-126-964-11	ELECT	10uF	20%	50V	
C281	1-126-933-11	ELECT	100uF	20%	10V	
C282	1-126-961-11	ELECT	2.2uF	20%	50V	
C283	1-126-933-11	ELECT	100uF	20%	10V	
C284	1-126-923-11	ELECT	220uF	20%	10V	
C291	1-126-959-11	ELECT	0.47uF	20%	50V	
C301	1-126-967-11	ELECT	47uF	20%	10V	
C302	1-164-159-21	CERAMIC	0.1uF		50V	
C303	1-136-173-00	FILM	0.47uF	5%	50V	
C304	1-126-926-11	ELECT	1000uF	20%	10V	
C305	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C309	1-102-518-11	CERAMIC	33PF	5%	50V	
C310	1-102-516-11	CERAMIC	27PF	5%	50V	
C311	1-164-159-21	CERAMIC	0.1uF		50V	
C315	1-126-933-11	ELECT	100uF	20%	10V	
C316	1-136-165-00	FILM	0.1uF	5%	50V	
C390	1-126-933-11	ELECT	100uF	20%	10V	
C391	1-162-306-11	CERAMIC	0.01uF	20%	16V	(XB33/XB44/XB50/XB60)
C392	1-126-933-11	ELECT	100uF	20%	10V	(XB33/XB44/XB50/XB60)
C393	1-126-925-11	ELECT	470uF	20%	10V	
C394	1-164-159-21	CERAMIC	0.1uF		50V	
C396	1-126-961-11	ELECT	2.2uF	20%	50V	
C398	1-126-961-11	ELECT	2.2uF	20%	50V	
C903	1-136-165-00	FILM	0.1uF	5%	50V	
C904	1-126-937-11	ELECT	4700uF	20%	16V	
C906	1-126-933-11	ELECT	100uF	20%	10V	
C909	1-126-964-11	ELECT	10uF	20%	50V	
C910	1-126-933-11	ELECT	100uF	20%	10V	
C911	1-126-964-11	ELECT	10uF	20%	50V	
C912	1-126-916-11	ELECT	1000uF	20%	6.3V	
C913	1-126-943-11	ELECT	2200uF	20%	25V	
C914	1-126-767-11	ELECT	1000uF	20%	16V	
C915	1-126-967-11	ELECT	47uF	20%	16V	
C916	1-164-159-21	CERAMIC	0.1uF		50V	
C917	1-126-968-11	ELECT	100uF	20%	50V	
C918	1-126-968-11	ELECT	100uF	20%	50V	
C919	1-126-964-11	ELECT	10uF	20%	50V	
C920	1-126-947-11	ELECT	47uF	20%	35V	
C953	1-136-165-00	FILM	0.1uF	5%	50V	
C954	1-126-768-11	ELECT	2200uF	20%	16V	
C956	1-126-933-11	ELECT	100uF	20%	10V	
C1501	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C1502	1-162-290-31	CERAMIC	470PF	10%	50V	

MAIN

	Ref. No.	Part No.	Description			Remarks
	C1503	1-164-159-21	CERAMIC	0.1uF		50V
	C1504	1-126-960-11	ELECT	1uF	20%	50V
	C1505	1-126-964-11	ELECT	10uF	20%	50V
	C1506	1-126-964-11	ELECT	10uF	20%	50V
	C1507	1-126-960-11	ELECT	1uF	20%	50V
	C1508	1-126-933-11	ELECT	100uF	20%	10V
	C1523	1-126-933-11	ELECT	100uF	20%	16V
	C1531	1-164-159-21	CERAMIC	0.1uF		50V
	C1532	1-164-159-21	CERAMIC	0.1uF		50V
	C1533	1-164-159-21	CERAMIC	0.1uF		50V
	C1534	1-126-935-11	ELECT	470uF	20%	16V
	C1551	1-130-479-00	MYLAR	0.0047uF	5%	50V
	C1552	1-162-290-31	CERAMIC	470PF	10%	50V
	C1553	1-164-159-21	CERAMIC	0.1uF		50V
	C1554	1-126-960-11	ELECT	1uF	20%	50V
	C1555	1-126-964-11	ELECT	10uF	20%	50V
	C1556	1-126-964-11	ELECT	10uF	20%	50V
	C1557	1-126-960-11	ELECT	1uF	20%	50V
	C1558	1-126-933-11	ELECT	100uF	20%	10V
			< CONNECTOR >			
	CN101	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P			
*	CN102	1-568-836-11	SOCKET, CONNECTOR 17P			
	CN105	1-564-506-11	PLUG, CONNECTOR 3P (XB44)			
*	CN201	1-568-832-11	SOCKET, CONNECTOR 13P			(EXCEPT XB50/XB60)
	CN201	1-568-834-11	SOCKET, CONNECTOR 15P (XB50/XB60)			
	CN202	1-568-802-11	SOCKET, CONNECTOR 19P			
*	CN203	1-568-936-11	PIN, CONNECTOR 9P			
	CN205	1-568-838-11	SOCKET, CONNECTOR 21P			
*	CN206	1-568-830-11	SOCKET, CONNECTOR 11P			
*	CN207	1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P			
			< DIODE >			
	D141	8-719-991-33	DIODE 1SS133T-77			
	D191	8-719-991-33	DIODE 1SS133T-77 (XB44)			
	D192	8-719-991-33	DIODE 1SS133T-77 (XB44)			
	D281	8-719-991-33	DIODE 1SS133T-77			
	D291	8-719-991-33	DIODE 1SS133T-77			
	D301	8-719-200-82	DIODE 11ES2-NTA1B			
	D302	8-719-200-82	DIODE 11ES2-NTA1B			
	D303	8-719-991-33	DIODE 1SS133T-77			
	D304	8-719-991-33	DIODE 1SS133T-77			
	D305	8-719-991-33	DIODE 1SS133T-77			
	D306	8-719-991-33	DIODE 1SS133T-77			
	D307	8-719-991-33	DIODE 1SS133T-77			
	D309	8-719-991-33	DIODE 1SS133T-77 (D790/XB44/XB60)			
	D902	8-719-200-82	DIODE 11ES2-NTA1B			
	D903	8-719-200-82	DIODE 11ES2-NTA1B			
	D904	8-719-200-82	DIODE 11ES2-NTA1B			
	D905	8-719-200-82	DIODE 11ES2-NTA1B			
	D906	8-719-200-82	DIODE 11ES2-NTA1B			
	D907	8-719-200-82	DIODE 11ES2-NTA1B			
	D908	8-719-200-82	DIODE 11ES2-NTA1B			
	D909	8-719-200-82	DIODE 11ES2-NTA1B			
	D910	8-719-982-26	DIODE MTZJ-T-77-33B			
	D911	8-719-109-66	DIODE MTZJ-T-77-3.3B			
	D912	8-719-991-33	DIODE 1SS133T-77			
	D913	8-719-200-82	DIODE 11ES2-NTA1B			

Ref. No.	Part No.	Description	Remarks
D914	8-719-200-82	DIODE 11ES2-NTA1B	
D915	8-719-935-69	DIODE UZL-11M1-TA	
D951	8-719-991-33	DIODE 1SS133T-77	
D952	8-719-991-33	DIODE 1SS133T-77	
		< FERRITE BEAD >	
FB301	1-412-473-21	INDUCTOR 0UH (XB60)	
FB302	1-412-473-21	INDUCTOR 0uH (EXCEPT XB60)	
		< IC >	
IC101	8-759-634-50	IC M5218AL	
IC102	8-759-000-48	IC MC14052BCP	
IC201	8-759-460-02	IC M62427FP-A	
IC231	8-759-634-50	IC M5218AL	
IC281	8-759-111-68	IC uPC1237HA	
IC301	8-759-499-02	IC uPD780018YGF-027-3BA	(D390/D790/G5500)
IC301	8-759-531-31	IC uPD780018YGF-028-3BA	(XB33/XB44/XB50/XB60)
IC302	8-759-635-63	IC M51943BSL-TP	
IC391	8-749-923-04	IC TOTX178 (XB33/XB44/XB50/XB60)	
IC901	8-759-288-53	IC LA5617	
IC902	8-759-604-86	IC M5F7807L	
IC903	8-759-231-53	IC M5F7805L	
IC904	8-759-231-58	IC NJM7812FA (XB33/XB44/XB50/XB60)	
IC904	8-759-604-39	IC M5F78M12L (D390/D790/G5500)	
IC1501	8-759-363-21	IC HA12203NT	
IC1502	8-759-822-09	IC LB1641	
		< JACK >	
J101	1-695-188-31	JACK, PIN 4P (PHONO, VIDEO (AUDIO))	(D390/D790/G5500)
J101	1-784-275-11	JACK, PIN 6P (PHONO, VIDEO (AUDIO)IN, OUT)	(XB33/XB44/XB50/XB60)
		< COIL >	
L131	1-420-872-00	COIL, AIR-CORE (XB50/XB60)	
L181	1-420-872-00	COIL, AIR-CORE (XB50/XB60)	
L301	1-410-509-11	INDUCTOR 10uH	
L393	1-410-515-11	INDUCTOR 33uH	
		< TRANSISTOR >	
Q101	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	(XB33/XB44/XB50/XB60)
Q102	8-729-029-40	TRANSISTOR DTA124ESA-TP	(XB33/XB44/XB50/XB60)
Q103	8-729-029-86	TRANSISTOR DTC124ESA-TP	(XB33/XB44/XB50/XB60)
Q141	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q142	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q151	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	(XB33/XB44/XB50/XB60)
Q191	8-729-119-76	TRANSISTOR 2SA1175TP-HFE (XB44)	
Q192	8-729-111-29	TRANSISTOR 2SD1616-TP-LK (XB44)	
Q201	8-729-029-86	TRANSISTOR DTC124ESA-TP	(D790/XB44/XB60)
Q202	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q203	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q204	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q231	8-729-029-40	TRANSISTOR DTA124ESA-TP	
Q232	8-729-029-40	TRANSISTOR DTA124ESA-TP	

Ref. No.	Part No.	Description				Remarks
Q251	8-729-029-86	TRANSISTOR	DTC124ESA-TP			(D790/XB44/XB60)
Q252	8-729-620-05	TRANSISTOR	2SC2603TP-EF			
Q253	8-729-620-05	TRANSISTOR	2SC2603TP-EF			
Q254	8-729-141-30	TRANSISTOR	2SC3623ATP-LK			
Q281	8-729-029-86	TRANSISTOR	DTC124ESA-TP			
Q282	8-729-029-40	TRANSISTOR	DTA124ESA-TP			
Q283	8-729-029-86	TRANSISTOR	DTC124ESA-TP			
Q301	8-729-620-05	TRANSISTOR	2SC2603TP-EF			
Q901	8-729-040-20	TRANSISTOR	RT1P137L-TP			
Q902	8-729-029-86	TRANSISTOR	DTC124ESA-TP			
Q903	8-729-026-68	TRANSISTOR	2SD2525(TP)			
Q904	8-729-030-19	TRANSISTOR	2SB1640(TP)			
Q905	8-729-040-20	TRANSISTOR	RT1P137L-TP			
Q906	8-729-029-40	TRANSISTOR	DTA124ESA-TP			
Q907	8-729-620-05	TRANSISTOR	2SC2603TP-EF			
Q1531	8-729-801-93	TRANSISTOR	2SD1387-34-TP			
Q1532	8-729-029-66	TRANSISTOR	DTC114ESA-TP			
Q1533	8-729-029-66	TRANSISTOR	DTC114ESA-TP			
Q1534	8-729-119-77	TRANSISTOR	2SA1175TP-FEK			
Q1535	8-729-029-66	TRANSISTOR	DTC114ESA-TP			
		< RESISTOR >				
R101	1-249-417-11	CARBON	1K	5%	1/4W	F (XB50/XB60)
R102	1-249-417-11	CARBON	1K	5%	1/4W	F
R103	1-249-437-11	CARBON	47K	5%	1/4W	
R104	1-249-417-11	CARBON	1K	5%	1/4W	F
R105	1-247-897-11	CARBON	560K	5%	1/4W	
R106	1-249-437-11	CARBON	47K	5%	1/4W	
R107	1-249-417-11	CARBON	1K	5%	1/4W	F
R108	1-249-441-11	CARBON	100K	5%	1/4W	
R109	1-247-815-91	CARBON	220	5%	1/4W	(XB50/XB60)
R121	1-249-424-11	CARBON	3.9K	5%	1/4W	F
R122	1-247-887-00	CARBON	220K	5%	1/4W	
R123	1-249-426-11	CARBON	5.6K	5%	1/4W	(XB33/XB44/XB50/XB60)
R124	1-249-429-11	CARBON	10K	5%	1/4W	(XB33/XB44/XB50/XB60)
R125	1-249-441-11	CARBON	100K	5%	1/4W	(XB33/XB44/XB50/XB60)
R126	1-249-417-11	CARBON	1K	5%	1/4W	F (XB33/XB44/XB50/XB60)
R127	1-249-441-11	CARBON	100K	5%	1/4W	(XB33/XB44/XB50/XB60)
R131	1-260-076-11	CARBON	10	5%	1/2W	(XB50/XB60)
R132	1-260-076-11	CARBON	10	5%	1/2W	(XB50/XB60)
R133	1-260-091-11	CARBON	220	5%	1/2W	
R134	1-260-091-11	CARBON	220	5%	1/2W	
R140	1-249-429-11	CARBON	10K	5%	1/4W	
R141	1-249-437-11	CARBON	47K	5%	1/4W	
R142	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R147	1-215-893-11	METAL OXIDE	1.5K	5%	2W	F (D390/D790/G5500/XB60)
⚠R147	1-216-457-00	METAL OXIDE	1.2K	5%	2W	F (XB33/XB50)
⚠R147	1-216-458-11	METAL OXIDE	1.8K	5%	2W	F (XB44)
R151	1-249-417-11	CARBON	1K	5%	1/4W	F (XB50/XB60)
R152	1-249-417-11	CARBON	1K	5%	1/4W	F
R153	1-249-437-11	CARBON	47K	5%	1/4W	
R154	1-249-417-11	CARBON	1K	5%	1/4W	F
R155	1-247-897-11	CARBON	560K	5%	1/4W	
R156	1-249-437-11	CARBON	47K	5%	1/4W	
R157	1-249-417-11	CARBON	1K	5%	1/4W	F
R158	1-249-441-11	CARBON	100K	5%	1/4W	
R159	1-247-815-91	CARBON	220	5%	1/4W	(XB50/XB60)
R171	1-249-424-11	CARBON	3.9K	5%	1/4W	F
R172	1-247-887-00	CARBON	220K	5%	1/4W	
R173	1-249-426-11	CARBON	5.6K	5%	1/4W	(XB33/XB44/XB50/XB60)
R174	1-249-429-11	CARBON	10K	5%	1/4W	(XB33/XB44/XB50/XB60)
R176	1-249-417-11	CARBON	1K	5%	1/4W	F (XB33/XB44/XB50/XB60)
R177	1-249-441-11	CARBON	100K	5%	1/4W	(XB33/XB44/XB50/XB60)
R181	1-260-076-11	CARBON	10	5%	1/2W	(XB50/XB60)
R182	1-260-076-11	CARBON	10	5%	1/2W	(XB50/XB60)
R183	1-260-091-11	CARBON	220	5%	1/2W	
R184	1-260-091-11	CARBON	220	5%	1/2W	
R191	1-249-425-11	CARBON	4.7K	5%	1/4W	F (XB44)
R192	1-249-441-11	CARBON	100K	5%	1/4W	(XB44)
R193	1-249-421-11	CARBON	2.2K	5%	1/4W	F (XB44)
R194	1-249-437-11	CARBON	47K	5%	1/4W	(XB44)
R195	1-249-437-11	CARBON	47K	5%	1/4W	(XB44)
R201	1-249-429-11	CARBON	10K	5%	1/4W	
R202	1-247-863-91	CARBON	22K	5%	1/4W	
R203	1-249-441-11	CARBON	100K	5%	1/4W	
R205	1-247-863-91	CARBON	22K	5%	1/4W	
R206	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R207	1-249-431-11	CARBON	15K	5%	1/4W	
R209	1-249-441-11	CARBON	100K	5%	1/4W	
R210	1-247-891-00	CARBON	330K	5%	1/4W	(XB50)
R210	1-247-896-11	CARBON	510K	5%	1/4W	(EXCEPT XB50)
R211	1-247-891-00	CARBON	330K	5%	1/4W	(D790/XB44/XB60)
R211	1-249-441-11	CARBON	100K	5%	1/4W	(XB50)
R212	1-247-826-00	CARBON	620	5%	1/4W	(EXCEPT XB50)
R212	1-249-411-11	CARBON	330	5%	1/4W	(XB50)
R213	1-249-429-11	CARBON	10K	5%	1/4W	
R214	1-249-437-11	CARBON	47K	5%	1/4W	
R215	1-247-903-00	CARBON	1M	5%	1/4W	
R216	1-249-429-11	CARBON	10K	5%	1/4W	
R217	1-249-437-11	CARBON	47K	5%	1/4W	
R221	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R222	1-249-425-11	CARBON	4.7K	5%	1/4W	F

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

MAIN

Ref. No.	Part No.	Description			Remarks
R226	1-249-421-11	CARBON	2.2K	5%	1/4W F
R227	1-249-441-11	CARBON	100K	5%	1/4W
R228	1-249-429-11	CARBON	10K	5%	1/4W
R231	1-249-437-11	CARBON	47K	5%	1/4W
R232	1-249-437-11	CARBON	47K	5%	1/4W
R234	1-247-886-11	CARBON	200K	5%	1/4W
R235	1-249-421-11	CARBON	2.2K	5%	1/4W F
R236	1-249-441-11	CARBON	100K	5%	1/4W
R253	1-249-441-11	CARBON	100K	5%	1/4W
R257	1-249-431-11	CARBON	15K	5%	1/4W
R259	1-249-441-11	CARBON	100K	5%	1/4W
R260	1-247-891-00	CARBON	330K	5%	1/4W (XB50)
R260	1-247-896-11	CARBON	510K	5%	1/4W (EXCEPT XB50)
R261	1-247-891-00	CARBON	330K	5%	1/4W (D790/XB44/XB60)
R261	1-249-441-11	CARBON	100K	5%	1/4W (XB50)
R262	1-247-826-00	CARBON	620	5%	1/4W (EXCEPT XB50)
R262	1-249-411-11	CARBON	330	5%	1/4W (XB50)
R263	1-249-429-11	CARBON	10K	5%	1/4W
R264	1-249-437-11	CARBON	47K	5%	1/4W
R265	1-247-903-00	CARBON	1M	5%	1/4W
R266	1-249-429-11	CARBON	10K	5%	1/4W
R267	1-249-437-11	CARBON	47K	5%	1/4W
R271	1-249-425-11	CARBON	4.7K	5%	1/4W F
R272	1-249-425-11	CARBON	4.7K	5%	1/4W F
R276	1-249-421-11	CARBON	2.2K	5%	1/4W F
R277	1-249-441-11	CARBON	100K	5%	1/4W
R278	1-249-429-11	CARBON	10K	5%	1/4W
R281	1-249-429-11	CARBON	10K	5%	1/4W
R282	1-249-429-11	CARBON	10K	5%	1/4W
R283	1-249-435-11	CARBON	33K	5%	1/4W
R284	1-247-791-91	CARBON	22	5%	1/4W
R285	1-249-441-11	CARBON	100K	5%	1/4W
R286	1-249-429-11	CARBON	10K	5%	1/4W
R287	1-249-429-11	CARBON	10K	5%	1/4W
R288	1-249-438-11	CARBON	56K	5%	1/4W
R289	1-249-437-11	CARBON	47K	5%	1/4W
R291	1-247-863-91	CARBON	22K	5%	1/4W
R292	1-247-863-91	CARBON	22K	5%	1/4W
R293	1-247-843-11	CARBON	3.3K	5%	1/4W (XB50)
R293	1-249-421-11	CARBON	2.2K	5%	1/4W F (EXCEPT XB50)
R294	1-249-441-11	CARBON	100K	5%	1/4W
R295	1-247-903-00	CARBON	1M	5%	1/4W
R301	1-249-413-11	CARBON	470	5%	1/4W F
R302	1-249-425-11	CARBON	4.7K	5%	1/4W F
R303	1-249-437-11	CARBON	47K	5%	1/4W
R304	1-249-437-11	CARBON	47K	5%	1/4W
R305	1-249-429-11	CARBON	10K	5%	1/4W
R313	1-247-807-31	CARBON	100	5%	1/4W
R314	1-247-807-31	CARBON	100	5%	1/4W (XB50: AEP, UK/XB60: AEP, UK)
R315	1-247-807-31	CARBON	100	5%	1/4W (XB50: AEP, UK/XB60: AEP, UK)

Ref. No.	Part No.	Description			Remarks
R316	1-249-429-11	CARBON	10K	5%	1/4W
R318	1-249-429-11	CARBON	10K	5%	1/4W
R319	1-249-429-11	CARBON	10K	5%	1/4W
R320	1-249-429-11	CARBON	10K	5%	1/4W
R322	1-249-425-11	CARBON	4.7K	5%	1/4W F
R323	1-247-807-31	CARBON	100	5%	1/4W
R325	1-247-843-11	CARBON	3.3K	5%	1/4W (XB50: AEP, UK/XB60: AEP, UK)
R325	1-249-427-11	CARBON	6.8K	5%	1/4W F (XB33: E, AR, MX/XB44: E, AR, MX/XB50: EE, CIS/XB60: EE, CIS)
R325	1-249-431-11	CARBON	15K	5%	1/4W (XB33: SAF, AUS/XB44: SAF, AUS)
R326	1-249-415-11	CARBON	680	5%	1/4W F (XB33: SAF, AUS/XB44: SAF, AUS)
R326	1-249-425-11	CARBON	4.7K	5%	1/4W F (XB33: E, AR, MX/XB44: E, AR, MX)
R326	1-249-427-11	CARBON	6.8K	5%	1/4W F (XB50: AEP, UK/XB6: AEP, UK)
R326	1-249-435-11	CARBON	33K	5%	1/4W (XB50: EE, CIS/XB60: EE, CIS)
R327	1-247-807-31	CARBON	100	5%	1/4W
R328	1-247-807-31	CARBON	100	5%	1/4W
R330	1-247-807-31	CARBON	100	5%	1/4W
R331	1-247-807-31	CARBON	100	5%	1/4W
R332	1-247-807-31	CARBON	100	5%	1/4W
R333	1-247-807-31	CARBON	100	5%	1/4W
R339	1-247-807-31	CARBON	100	5%	1/4W
R340	1-247-807-31	CARBON	100	5%	1/4W
R341	1-247-807-31	CARBON	100	5%	1/4W
R342	1-247-807-31	CARBON	100	5%	1/4W
R344	1-247-807-31	CARBON	100	5%	1/4W
R345	1-247-807-31	CARBON	100	5%	1/4W
R346	1-247-807-31	CARBON	100	5%	1/4W
R349	1-247-807-31	CARBON	100	5%	1/4W
R350	1-247-807-31	CARBON	100	5%	1/4W
R351	1-247-807-31	CARBON	100	5%	1/4W
R352	1-247-807-31	CARBON	100	5%	1/4W
R353	1-247-807-31	CARBON	100	5%	1/4W
R354	1-247-807-31	CARBON	100	5%	1/4W
R355	1-247-807-31	CARBON	100	5%	1/4W
R356	1-247-807-31	CARBON	100	5%	1/4W
R357	1-247-807-31	CARBON	100	5%	1/4W
R359	1-247-807-31	CARBON	100	5%	1/4W
R360	1-247-807-31	CARBON	100	5%	1/4W
R366	1-247-807-31	CARBON	100	5%	1/4W
R367	1-249-429-11	CARBON	10K	5%	1/4W
R368	1-247-843-11	CARBON	3.3K	5%	1/4W
R369	1-249-429-11	CARBON	10K	5%	1/4W
R384	1-249-429-11	CARBON	10K	5%	1/4W
R395	1-247-807-31	CARBON	100	5%	1/4W
R396	1-249-435-11	CARBON	33K	5%	1/4W
R397	1-247-807-31	CARBON	100	5%	1/4W
R398	1-249-435-11	CARBON	33K	5%	1/4W
R417	1-249-441-11	CARBON	100K	5%	1/4W
R913	1-247-815-91	CARBON	220	5%	1/4W
R914	1-249-417-11	CARBON	1K	5%	1/4W F
R915	1-249-425-11	CARBON	4.7K	5%	1/4W F

Ref. No.	Part No.	Description				Remarks
R916	1-247-815-91	CARBON	220	5%	1/4W	
R917	1-247-815-91	CARBON	220	5%	1/4W	
R918	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R920	1-249-417-11	CARBON	1K	5%	1/4W	F
R921	1-247-895-91	CARBON	470K	5%	1/4W	
R951	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R952	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R1501	1-249-435-11	CARBON	33K	5%	1/4W	
R1502	1-249-417-11	CARBON	1K	5%	1/4W	F
R1503	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1504	1-247-840-00	CARBON	2.4K	5%	1/4W	
R1505	1-247-863-91	CARBON	22K	5%	1/4W	
R1506	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R1507	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R1521	1-247-852-11	CARBON	7.5K	5%	1/4W	
R1522	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R1524	1-249-429-11	CARBON	10K	5%	1/4W	
R1525	1-249-432-11	CARBON	18K	5%	1/4W	
R1526	1-249-429-11	CARBON	10K	5%	1/4W	
R1527	1-249-429-11	CARBON	10K	5%	1/4W	
R1531	1-247-843-11	CARBON	3.3K	5%	1/4W	
R1532	1-249-411-11	CARBON	330	5%	1/4W	
R1533	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R1534	1-249-429-11	CARBON	10K	5%	1/4W	
R1535	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R1536	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R1541	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R1542	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R1543	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R1544	1-249-417-11	CARBON	1K	5%	1/4W	F
R1545	1-249-437-11	CARBON	47K	5%	1/4W	
R1546	1-249-437-11	CARBON	47K	5%	1/4W	
R1547	1-249-437-11	CARBON	47K	5%	1/4W	
R1548	1-249-437-11	CARBON	47K	5%	1/4W	
R1551	1-247-863-91	CARBON	22K	5%	1/4W	
R1552	1-249-417-11	CARBON	1K	5%	1/4W	F
R1553	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1554	1-247-840-00	CARBON	2.4K	5%	1/4W	
R1555	1-247-863-91	CARBON	22K	5%	1/4W	
R1556	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R1557	1-249-428-11	CARBON	8.2K	5%	1/4W	F
		< VARIABLE RESISTOR >				
RV1501	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV1551	1-238-598-11	RES, ADJ, CARBON 2.2K				
		< RELAY >				
RY141	1-755-141-11	RELAY				
		< TERMINAL >				
TM131	1-537-240-31	TERMINAL BOARD (CHECKER PIN) (SPEAKER) (D390/D790/G5500/XB33/XB44)				
TM131	1-537-801-11	TERMINAL BOARD (SPEAKER) (XB50/XB60)				
TM132	1-537-240-31	TERMINAL BOARD (CHECKER PIN) (SURROUND SPEAKER) (D790/XB33/XB50/XB60)				

Ref. No.	Part No.	Description				Remarks
		< VIBRATOR >				
X301	1-760-489-11	VIBRATOR, CERAMIC (5MHz)				
X302	1-567-098-41	VIBRATOR, CRYSTAL (32.768MHz)				

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Ref. No.	Part No.	Description				Remarks
*	A-4403-872-A	PANEL BOARD, COMPLETE ********************** (D390/G5500/XB33/XB50: EE, CIS)				
*	A-4403-885-A	PANEL BOARD, COMPLETE (XB60: AEP, UK) **********************				
*	A-4403-892-A	PANEL BOARD, COMPLETE (XB50: AEP, UK) **********************				
*	A-4403-906-A	PANEL BOARD, COMPLETE ********************** (D790/XB44/XB60: EE, CIS)				
*	4-932-810-31	CUSHION (FL)				
*	4-978-168-01	HOLDER, FL TUBE				
		< CAPACITOR >				
C601	1-126-967-11	ELECT	47uF	20%	50V	
C602	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C603	1-126-963-11	ELECT	4.7uF	20%	50V	
C604	1-126-960-11	ELECT	1uF	20%	50V	
C606	1-126-960-11	ELECT	1uF	20%	50V	
C608	1-126-382-11	ELECT	100uF	20%	6.3V	
C610	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C611	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C621	1-126-957-11	ELECT	0.22uF	20%	50V	
C622	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C623	1-126-957-11	ELECT	0.22uF	20%	50V	
C624	1-136-159-00	FILM	0.033uF	5%	50V	
C625	1-162-302-11	CERAMIC	0.0022uF	20%	16V	
C626	1-126-957-11	ELECT	0.22uF	20%	50V	
C632	1-126-957-11	ELECT	0.22uF	20%	50V	
C641	1-162-286-21	CERAMIC	220PF	10%	50V	
C642	1-162-286-21	CERAMIC	220PF	10%	50V	
C643	1-162-286-21	CERAMIC	220PF	10%	50V	
C644	1-162-286-21	CERAMIC	220PF	10%	50V	
C645	1-162-286-21	CERAMIC	220PF	10%	50V	
C646	1-162-286-21	CERAMIC	220PF	10%	50V	
C647	1-162-286-21	CERAMIC	220PF	10%	50V	
C648	1-162-286-21	CERAMIC	220PF	10%	50V	
C649	1-162-286-21	CERAMIC	220PF	10%	50V	
C650	1-162-286-21	CERAMIC	220PF	10%	50V	
C651	1-162-286-21	CERAMIC	220PF	10%	50V	
C652	1-162-286-21	CERAMIC	220PF	10%	50V	
C653	1-162-286-21	CERAMIC	220PF	10%	50V	
C654	1-162-286-21	CERAMIC	220PF	10%	50V	
C655	1-162-286-21	CERAMIC	220PF	10%	50V	
C696	1-164-159-21	CERAMIC	0.1uF		50V	
C697	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C698	1-136-165-00	FILM	0.1uF	5%	50V	(D390/G5500/XB33/XB50)

PANEL

Ref. No.	Part No.	Description	Remarks
		< CONNECTOR >	
* CN601	1-568-836-11	SOCKET, CONNECTOR 17P	
CN602	1-506-486-11	PIN, CONNECTOR 7P	
* CN603	1-568-944-11	PIN, CONNECTOR 6P	
* CN604	1-568-946-11	PIN, CONNECTOR 8P	
		< DIODE >	
D601	8-719-991-33	DIODE 1SS133T-77	
D602	8-719-991-33	DIODE 1SS133T-77	
D606	8-719-991-33	DIODE 1SS133T-77	
D607	8-719-991-33	DIODE 1SS133T-77	
D611	8-719-057-10	DIODE LNJ301MPUJAB (TUNER/BAND)	
D612	8-719-057-10	DIODE LNJ301MPUJAB (TUNER/BAND)	
D613	8-719-058-04	DIODE SEL5223S-TP15 (ENTER/NEXT)	
D614	8-719-058-04	DIODE SEL5223S-TP15 (GROOVE)	
D615	8-719-058-04	DIODE SEL5223S-TP15 (SUPER WOOFER)	(D790/XB44/XB60)
D616	8-719-058-04	DIODE SEL5223S-TP15 (EFFECT)	
D617	8-719-058-04	DIODE SEL5223S-TP15 (ENTER)	
D618	8-719-058-04	DIODE SEL5223S-TP15 (FILE 1)	
D619	8-719-058-04	DIODE SEL5223S-TP15 (FILE 2)	
D620	8-719-058-04	DIODE SEL5223S-TP15 (FILE 3)	
D621	8-719-058-04	DIODE SEL5223S-TP15 (FILE 4)	
D622	8-719-058-04	DIODE SEL5223S-TP15 (FILE 5)	
D623	8-719-058-04	DIODE SEL5223S-TP15 (P FILE)	
D624	8-719-058-04	DIODE SEL5223S-TP15 (MENU 2)	
D625	8-719-058-04	DIODE SEL5223S-TP15 (MENU 1)	
		< FERRITE BEAD >	
FB601	1-412-473-21	INDUCTOR 0uH	
		< FILTER >	
FL601	1-517-619-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC601	8-759-493-77	IC TMP87CH74F-6638	
IC602	8-759-459-84	IC NJL56H400	
		< COIL >	
L601	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q601	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q601	8-729-620-05	TRANSISTOR 2SC2603TP-EF	
Q602	8-729-118-00	TRANSISTOR 2SB1116-TP-LK	
Q603	8-729-118-00	TRANSISTOR 2SB1116-TP-LK	
Q604	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q605	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q606	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q607	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q608	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q609	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q610	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q611	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q614	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q617	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q618	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	

Ref. No.	Part No.	Description				Remarks
Q619	8-729-119-77	TRANSISTOR 2SA1175TP-FEK				
Q621	8-729-119-77	TRANSISTOR 2SA1175TP-FEK				
		< RESISTOR >				
R601	1-249-415-11	CARBON	680	5%	1/4W	F (D790/XB44/XB60)
R602	1-249-431-11	CARBON	15K	5%	1/4W	(D790/XB44/XB60)
R603	1-247-903-00	CARBON	1M	5%	1/4W	
R608	1-249-429-11	CARBON	10K	5%	1/4W	
R609	1-247-843-11	CARBON	3.3K	5%	1/4W	
R610	1-247-843-11	CARBON	3.3K	5%	1/4W	
R611	1-249-429-11	CARBON	10K	5%	1/4W	
R612	1-249-429-11	CARBON	10K	5%	1/4W	
R613	1-249-401-11	CARBON	47	5%	1/4W	F
R614	1-249-429-11	CARBON	10K	5%	1/4W	
R615	1-249-429-11	CARBON	10K	5%	1/4W	
R616	1-249-429-11	CARBON	10K	5%	1/4W	
R617	1-249-429-11	CARBON	10K	5%	1/4W	
R621	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R622	1-249-437-11	CARBON	47K	5%	1/4W	
R623	1-247-895-91	CARBON	470K	5%	1/4W	
R624	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R625	1-249-437-11	CARBON	47K	5%	1/4W	
R626	1-247-895-91	CARBON	470K	5%	1/4W	
R633	1-247-897-11	CARBON	560K	5%	1/4W	
R634	1-247-897-11	CARBON	560K	5%	1/4W	
R636	1-249-435-11	CARBON	33K	5%	1/4W	
R637	1-247-895-91	CARBON	470K	5%	1/4W	
R641	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R642	1-247-815-91	CARBON	220	5%	1/4W	
R643	1-249-410-11	CARBON	270	5%	1/4W	F
R644	1-249-412-11	CARBON	390	5%	1/4W	F
R645	1-249-413-11	CARBON	470	5%	1/4W	F
R646	1-249-415-11	CARBON	680	5%	1/4W	F
R647	1-249-416-11	CARBON	820	5%	1/4W	F
R648	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R649	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R650	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R651	1-247-815-91	CARBON	220	5%	1/4W	
R652	1-249-410-11	CARBON	270	5%	1/4W	F
R653	1-249-412-11	CARBON	390	5%	1/4W	F
R654	1-249-413-11	CARBON	470	5%	1/4W	F
R655	1-249-415-11	CARBON	680	5%	1/4W	F
R656	1-249-416-11	CARBON	820	5%	1/4W	F
R657	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R658	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R659	1-247-815-91	CARBON	220	5%	1/4W	
R660	1-249-410-11	CARBON	270	5%	1/4W	F
R661	1-249-412-11	CARBON	390	5%	1/4W	F
R662	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R663	1-247-815-91	CARBON	220	5%	1/4W	
R664	1-249-410-11	CARBON	270	5%	1/4W	F
R665	1-249-412-11	CARBON	390	5%	1/4W	F
R666	1-249-413-11	CARBON	470	5%	1/4W	F
R667	1-249-415-11	CARBON	680	5%	1/4W	F

Ref. No.	Part No.	Description				Remarks
R668	1-249-416-11	CARBON	820	5%	1/4W	F
R669	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R670	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R671	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R672	1-247-843-11	CARBON	3.3K	5%	1/4W	
R673	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R674	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R675	1-249-429-11	CARBON	10K	5%	1/4W	
R676	1-249-432-11	CARBON	18K	5%	1/4W	
R677	1-249-436-11	CARBON	39K	5%	1/4W	
R678	1-249-413-11	CARBON	470	5%	1/4W	F
R681	1-249-429-11	CARBON	10K	5%	1/4W	
R682	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R683	1-247-887-00	CARBON	220K	5%	1/4W	
R684	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R685	1-247-815-91	CARBON	220	5%	1/4W	
R686	1-247-807-31	CARBON	100	5%	1/4W	
R687	1-247-807-31	CARBON	100	5%	1/4W	
R688	1-247-807-31	CARBON	100	5%	1/4W	
R689	1-247-807-31	CARBON	100	5%	1/4W	
R690	1-247-807-31	CARBON	100	5%	1/4W	
						(D790/XB44/XB60)
R691	1-247-807-31	CARBON	100	5%	1/4W	
R692	1-247-807-31	CARBON	100	5%	1/4W	
R693	1-247-807-31	CARBON	100	5%	1/4W	
R694	1-247-807-31	CARBON	100	5%	1/4W	
R695	1-247-807-31	CARBON	100	5%	1/4W	
R696	1-247-807-31	CARBON	100	5%	1/4W	
R697	1-247-807-31	CARBON	100	5%	1/4W	
R698	1-247-807-31	CARBON	100	5%	1/4W	
R699	1-247-807-31	CARBON	100	5%	1/4W	
R700	1-247-807-31	CARBON	100	5%	1/4W	
		< SWITCH >				
S601	1-554-303-21	SWITCH, TACTILE (ENTER/NEXT)				
S602	1-554-303-21	SWITCH, TACTILE (TUNER MEMORY)				
S603	1-554-303-21	SWITCH, TACTILE (TUNING MODE)				
S604	1-554-303-21	SWITCH, TACTILE (TUNER/BAND)				
S605	1-554-303-21	SWITCH, TACTILE (TUNING +)				
S606	1-554-303-21	SWITCH, TACTILE (TUNING –)				
S607	1-554-303-21	SWITCH, TACTILE (STEREO/MONO)				
S608	1-554-303-21	SWITCH, TACTILE (FUNCTION)				
S609	1-554-303-21	SWITCH, TACTILE (GROOVE)				
S610	1-554-303-21	SWITCH, TACTILE (GEQ △)				
S611	1-554-303-21	SWITCH, TACTILE (GEQ ◁)				
S612	1-554-303-21	SWITCH, TACTILE (GEQ ▷)				
S613	1-554-303-21	SWITCH, TACTILE (GEQ ▽)				
S614	1-554-303-21	SWITCH, TACTILE (SUPER WOOFER)				
S615	1-554-303-21	SWITCH, TACTILE (SUPER W MODE)				
						(D790/XB44/XB60)
S616	1-554-303-21	SWITCH, TACTILE (GEQ CONTROL)				
S617	1-554-303-21	SWITCH, TACTILE (ENTER)				
S618	1-554-303-21	SWITCH, TACTILE (EFFECT)				
S619	1-554-303-21	SWITCH, TACTILE (SPECTRUM ANALYZER)				
S620	1-554-303-21	SWITCH, TACTILE (DISPLAY/DEMO)				
S621	1-554-303-21	SWITCH, TACTILE (POWER)				
S622	1-554-303-21	SWITCH, TACTILE (CLOCK SET)				
S623	1-554-303-21	SWITCH, TACTILE (REC)				
S624	1-554-303-21	SWITCH, TACTILE (DAILY 1)				
S625	1-554-303-21	SWITCH, TACTILE (DAILY 2)				
S626	1-554-303-21	SWITCH, TACTILE (SLEEP)				
S628	1-554-303-21	SWITCH, TACTILE (WAVE)				
S629	1-554-303-21	SWITCH, TACTILE (KARAOKE PON/MPX)				
S630	1-554-303-21	SWITCH, TACTILE (SURROUND)				
S631	1-554-303-21	SWITCH, TACTILE (P FILE MEMORY)				
S634	1-554-303-21	SWITCH, TACTILE (PTY)				
						(XB50: AEP, UK/XB60: AEP, UK)
S701	1-473-392-11	ENCODER, ROTARY (VOLUME)				
		< VIBRATOR >				
X601	1-579-125-11	VIBRATOR, CERAMIC (8MHz)				

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Ref. No.	Part No.	Description				Remarks
*	A-4392-442-A	POWER AMP BOARD, COMPLETE				
		****************************				
						(D390/D790/G5500)
*	A-4403-868-A	POWER AMP BOARD, COMPLETE (XB60)				
		****************************				
*	A-4403-888-A	POWER AMP BOARD, COMPLETE (XB44)				
		****************************				
*	A-4403-900-A	POWER AMP BOARD, COMPLETE (XB50)				
		****************************				
*	A-4403-912-A	POWER AMP BOARD, COMPLETE (XB33)				
		****************************				
		< CAPACITOR >				
C801	1-128-582-11	ELECT	10uF	20%	100V	
C802	1-162-286-21	CERAMIC	220PF	10%	50V	
C803	1-162-282-31	CERAMIC	100PF	10%	50V	
C804	1-126-967-11	ELECT	47uF	20%	50V	
C806	1-126-967-11	ELECT	47uF	20%	50V	
C807	1-128-560-11	ELECT	22uF	20%	100V	
C808	1-130-777-00	FILM	0.1uF	10%	100V	
						(XB50/XB60)
C809	1-128-560-11	ELECT	22uF	20%	100V	
C810	1-164-159-21	CERAMIC	0.1uF		50V	
C811	1-130-493-00	MYLAR	0.068uF	5%	50V	
C812	1-130-493-00	MYLAR	0.068uF	5%	50V	
C814	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C816	1-162-306-11	CERAMIC	0.01uF	20%	16V	
						(XB50/XB60)
C841	1-126-925-11	ELECT	470uF	20%	10V	
C851	1-128-582-11	ELECT	10uF	20%	100V	
C852	1-162-286-21	CERAMIC	220PF	10%	50V	
C853	1-162-282-31	CERAMIC	100PF	10%	50V	
C854	1-126-967-11	ELECT	47uF	20%	50V	
C856	1-126-967-11	ELECT	47uF	20%	50V	
C857	1-128-560-11	ELECT	22uF	20%	100V	
C858	1-130-777-00	FILM	0.1uF	10%	100V	
						(XB50/XB60)
C861	1-130-493-00	MYLAR	0.068uF	5%	50V	
C862	1-130-493-00	MYLAR	0.068uF	5%	50V	
C901	1-104-482-11	ELECT	4700uF	20%	63V	
						(D390/D790/G5500/XB60)
C901	1-117-750-11	ELECT	3300uF	20%	63V	
						(XB33/XB50)

Ref. No.	Part No.	Description			Remarks
C901	1-128-493-11	ELECT	4700uF	20%	71V (XB44)
C902	1-130-777-00	FILM	0.1uF	10%	100V
C951	1-104-482-11	ELECT	4700uF	20%	63V (D390/D790/G5500/XB60)
C951	1-117-750-11	ELECT	3300uF	20%	63V (XB33/XB50)
C951	1-128-493-11	ELECT	4700uF	20%	71V (XB44)
C952	1-130-777-00	FILM	0.1uF	10%	100V
		< CONNECTOR >			
CN801	1-778-981-11	CONNECTOR, BOARD TO BOARD 13P			
		< DIODE >			
D801	8-719-991-33	DIODE 1SS133T-77			
D841	8-719-991-33	DIODE 1SS133T-77			
D842	8-719-991-33	DIODE 1SS133T-77			
D851	8-719-991-33	DIODE 1SS133T-77			
D901	8-719-510-68	DIODE D5SBA204101			
		< IC >			
IC801	8-749-921-68	IC STK4231MK2 (EXCEPT XB50)			
IC801	8-749-922-65	IC STK4221MK2 (XB50)			
		< TRANSISTOR >			
Q801	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA			
Q851	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA			
		< RESISTOR >			
R801	1-249-417-11	CARBON	1K	5%	1/4W F
R802	1-249-437-11	CARBON	47K	5%	1/4W
R803	1-249-413-11	CARBON	470	5%	1/4W F (EXCEPT XB50)
R803	1-249-414-11	CARBON	560	5%	1/4W F (XB50)
R804	1-249-437-11	CARBON	47K	5%	1/4W (EXCEPT XB44)
R804	1-249-438-11	CARBON	56K	5%	1/4W (XB44)
R805	1-260-107-11	CARBON	4.7K	5%	1/2W
R806	1-260-107-11	CARBON	4.7K	5%	1/2W
⚠R807	1-212-881-11	FUSIBLE	100	5%	1/4W F
⚠R808	1-220-893-11	METAL	0.22	10%	5W
R809	1-260-076-11	CARBON	10	5%	1/2W
R811	1-249-417-11	CARBON	1K	5%	1/4W F
R812	1-249-431-11	CARBON	15K	5%	1/4W
R813	1-249-441-11	CARBON	100K	5%	1/4W
R814	1-260-105-11	CARBON	3.3K	5%	1/2W
R816	1-260-105-11	CARBON	3.3K	5%	1/2W
⚠R820	1-202-972-61	FUSIBLE	1	5%	1/4W F
R841	1-249-426-11	CARBON	5.6K	5%	1/4W
R842	1-247-889-00	CARBON	270K	5%	1/4W
R843	1-249-421-11	CARBON	2.2K	5%	1/4W F
R844	1-249-429-11	CARBON	10K	5%	1/4W
R851	1-249-417-11	CARBON	1K	5%	1/4W F
R852	1-249-437-11	CARBON	47K	5%	1/4W
R853	1-249-413-11	CARBON	470	5%	1/4W F (EXCEPT XB50)
R853	1-249-414-11	CARBON	560	5%	1/4W F (XB50)
R854	1-249-437-11	CARBON	47K	5%	1/4W (EXCEPT XB44)
R854	1-249-438-11	CARBON	56K	5%	1/4W (XB44)
R855	1-260-107-11	CARBON	4.7K	5%	1/2W
R856	1-260-107-11	CARBON	4.7K	5%	1/2W
⚠R857	1-212-881-11	FUSIBLE	100	5%	1/4W F
⚠R858	1-220-893-11	METAL	0.22	10%	5W
R859	1-260-076-11	CARBON	10	5%	1/2W
R861	1-249-417-11	CARBON	1K	5%	1/4W F
R862	1-249-431-11	CARBON	15K	5%	1/4W
R863	1-249-441-11	CARBON	100K	5%	1/4W

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Ref. No.	Part No.	Description			Remarks
	1-659-058-13	TABLE SENSOR BOARD *******************			
		< IC >			
IC202	8-749-924-18	IC PHOTO INTERRUPTER RPI-1391			
		< RESISTOR >			
R207	1-249-416-11	CARBON	820	5%	1/4W

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Ref. No.	Part No.	Description			Remarks
*	1-664-012-11	TC-A SW BOARD **************			
		< CONNECTOR >			
* CN612	1-568-943-11	PIN, CONNECTOR 5P			
		< DIODE >			
D631	8-719-057-10	DIODE LNJ301MPUJAB (▷)			
D632	8-719-057-10	DIODE LNJ301MPUJAB (◁)			
		< RESISTOR >			
R705	1-249-415-11	CARBON	680	5%	1/4W F
R706	1-249-416-11	CARBON	820	5%	1/4W F
R707	1-249-418-11	CARBON	1.2K	5%	1/4W F
R708	1-249-419-11	CARBON	1.5K	5%	1/4W F
R709	1-249-421-11	CARBON	2.2K	5%	1/4W F
R710	1-247-843-11	CARBON	3.3K	5%	1/4W
R711	1-247-807-31	CARBON	100	5%	1/4W
R714	1-247-807-31	CARBON	100	5%	1/4W
		< SWITCH >			
S641	1-554-303-21	SWITCH, TACTILE (▷)			
S642	1-554-303-21	SWITCH, TACTILE (◁)			
S643	1-554-303-21	SWITCH, TACTILE (■)			
S644	1-554-303-21	SWITCH, TACTILE (◀◀)			
S645	1-554-303-21	SWITCH, TACTILE (▶▶)			
S646	1-554-303-21	SWITCH, TACTILE (DOLBY NR)			
S647	1-554-303-21	SWITCH, TACTILE (DIRECTION)			

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Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remarks	
*	1-664-013-11	TC-B SW BOARD				
		**************				
		< DIODE >				
D635	8-719-057-10	DIODE LNJ301MPUJAB (◁)				
D636	8-719-057-10	DIODE LNJ301MPUJAB (▷)				
D637	8-719-058-17	DIODE LNG401NPYJA (❚❚)				
D638	8-719-057-09	DIODE LNJ801LPDJA (● REC)				
		< RESISTOR >				
R715	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R716	1-247-843-11	CARBON	3.3K	5%	1/4W	
R717	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R718	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R719	1-249-429-11	CARBON	10K	5%	1/4W	
R720	1-249-432-11	CARBON	18K	5%	1/4W	
R721	1-249-436-11	CARBON	39K	5%	1/4W	
R722	1-247-881-00	CARBON	120K	5%	1/4W	
R724	1-247-807-31	CARBON	100	5%	1/4W	
R725	1-247-807-31	CARBON	100	5%	1/4W	
R727	1-247-807-31	CARBON	100	5%	1/4W	
R728	1-247-807-31	CARBON	100	5%	1/4W	
		< SWITCH >				
S651	1-554-303-21	SWITCH, TACTILE (▷)				
S652	1-554-303-21	SWITCH, TACTILE (◁)				
S653	1-554-303-21	SWITCH, TACTILE (▶▶)				
S654	1-554-303-21	SWITCH, TACTILE (◀◀)				
S655	1-554-303-21	SWITCH, TACTILE (■)				
S656	1-554-303-21	SWITCH, TACTILE (❚❚)				
S657	1-554-303-21	SWITCH, TACTILE (● REC)				
S658	1-554-303-21	SWITCH, TACTILE (H SPEED DUB)				
S659	1-554-303-21	SWITCH, TACTILE (CD SYNC)				

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Ref. No.	Part No.	Description			Remarks
*	A-4303-588-A	TCB BOARD, COMPLETE (EE, CIS)			
		********************			
		< CAPACITOR >			
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C2	1-126-967-11	ELECT	47uF	20%	16V
C3	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C5	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C6	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C7	1-101-004-00	CERAMIC	0.01uF		50V
C8	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C9	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C10	1-162-306-11	CERAMIC CHIP	0.01uF	30%	16V
C16	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C19	1-163-249-11	CERAMIC CHIP	82PF	5%	50V
C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C22	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C23	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C24	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C26	1-126-967-11	ELECT	47uF	20%	16V
C28	1-126-967-11	ELECT	47uF	20%	16V
C29	1-162-306-11	CERAMIC	0.01uF	30%	16V
C30	1-126-961-11	ELECT	2.2uF	20%	50V
C31	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C32	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C33	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C34	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C35	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C40	1-126-967-11	ELECT	47uF	20%	16V
C41	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C42	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C43	1-163-031-91	CERAMIC CHIP	0.01uF		50V
C44	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C45	1-163-077-00	CERAMIC CHIP	0.1uF		50V
C46	1-126-967-11	ELECT	47uF	20%	16V
C47	1-126-301-11	ELECT	1.0uF	20%	50V
C48	1-163-059-00	CERAMIC CHIP	0.01uF		50V
C49	1-126-964-11	ELECT	10uF	20%	50V
C50	1-126-960-11	ELECT	1.0uF	20%	50V
C51	1-126-959-11	ELECT	0.47uF	20%	50V
C52	1-126-960-11	ELECT	1.0uF	20%	50V
C53	1-126-964-11	ELECT	10uF	20%	50V
C54	1-104-396-11	ELECT	10uF	20%	16V
C55	1-104-396-11	ELECT	10uF	20%	16V
C56	1-104-396-11	ELECT	10uF	20%	16V
C57	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
C58	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
C59	1-163-989-11	CERAMIC CHIP	33000PF	10%	25V
C60	1-163-989-11	CERAMIC CHIP	33000PF	10%	25V
C61	1-126-301-11	ELECT	1.0uF	20%	50V
C62	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C63	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C65	1-126-967-11	ELECT	47uF	20%	16V
C66	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C67	1-126-162-11	ELECT	3.3uF	20%	50V
C68	1-163-031-11	CERAMIC	0.01uF		50V
C69	1-126-967-11	ELECT	47uF	20%	16V
C71	1-162-306-11	CERAMIC	0.01uF	30%	16V
C72	1-126-967-11	ELECT	47uF	20%	16V
C73	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C74	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C1701	1-162-294-31	CERAMIC CHIP	1000PF	10%	50V
C1702	1-130-014-00	FILM	470PF	5%	50V
C1703	1-126-959-11	ELECT	0.47uF	20%	50V
C1704	1-126-959-11	ELECT	0.47uF	20%	50V
C1705	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C1706	1-126-960-11	ELECT	1.0uF	20%	50V
C1707	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C1710	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C1711	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C1712	1-130-736-11	FILM	0.01uF	5%	50V
C1713	1-130-736-11	FILM	0.01uF	5%	50V
C1714	1-126-960-11	ELECT	1.0uF	20%	50V
C1715	1-126-960-11	ELECT	1.0uF	20%	50V
C1716	1-126-960-11	ELECT	1.0uF	20%	50V
C1719	1-126-967-11	ELECT	47uF	20%	16V
C1720	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C1723	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C1724	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C1725	1-126-967-11	ELECT	47uF	20%	16V
C1726	1-126-960-11	ELECT	1.0uF	20%	50V

TCB

Ref. No.	Part No.	Description			Remarks
C1727	1-126-960-11	ELECT	1.0uF	20%	50V
C1728	1-126-966-11	ELECT	33uF	20%	16V
		< FILTER >			
CF1	1-567-389-11	FILTER, CERAMIC			
CF3	1-567-389-11	FILTER, CERAMIC			
		< CONNECTOR >			
* CN1	1-568-834-11	SOCKET, CONNECTOR 15P			
		< TRIMMER >			
CT1701	1-141-444-11	CAP, CERAMIC TRIMMER 50PF			
CT1701	1-141-569-11	CAP, ADJ 50PF			
		< DIODE >			
D21	8-719-976-99	DIODE DTZ5.1B			
D41	8-719-016-74	DIODE 1SS352			
D42	8-719-016-74	DIODE 1SS352			
D43	8-719-016-74	DIODE 1SS352			
D1701	8-719-016-74	DIODE 1SS352			
D1702	8-719-016-74	DIODE 1SS352			
D1703	8-719-991-33	DIODE 1SS133T			
D1704	8-719-016-74	DIODE 1SS352			
		< FRONTEND >			
FE1	1-693-335-11	FRONT END (3 GANG)			
FE2	1-233-514-11	ENCAPSULATED COMPONENT			
		< IC >			
IC21	8-759-288-54	IC LC72130			
IC41	8-759-495-82	IC LA1838			
IC1701	8-759-063-04	IC IR3R42			
IC1702	8-759-140-53	IC uPD4053BC			
		< IFT >			
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)			
		< JUMPER RESISTOR >			
JR2	1-216-295-91	METAL CHIP	0	5%	1/10W
JR6	1-216-295-91	METAL CHIP	0	5%	1/10W
JR8	1-216-295-91	METAL CHIP	0	5%	1/10W
JR9	1-216-295-91	METAL CHIP	0	5%	1/10W
JR12	1-216-296-91	METAL CHIP	0	5%	1/8W
JR46	1-216-296-91	METAL CHIP	0	5%	1/8W
JR47	1-216-295-91	METAL CHIP	0	5%	1/10W
JR48	1-216-295-91	METAL CHIP	0	5%	1/10W
JR49	1-216-296-91	METAL CHIP	0	5%	1/8W
JR51	1-216-295-91	METAL CHIP	0	5%	1/10W
JR52	1-216-295-91	METAL CHIP	0	5%	1/10W
JR53	1-216-296-91	METAL CHIP	0	5%	1/8W
JR54	1-216-295-91	METAL CHIP	0	5%	1/10W
JR1701	1-216-295-91	METAL CHIP	0	5%	1/10W
JR1702	1-216-295-91	METAL CHIP	0	5%	1/10W
JR1703	1-216-295-91	METAL CHIP	0	5%	1/10W
JR1704	1-216-295-91	METAL CHIP	0	5%	1/10W
JR1705	1-216-295-91	METAL CHIP	0	5%	1/10W

Ref. No.	Part No.	Description			Remarks
		< COIL >			
L3	1-410-521-11	MICRO INDUCTOR		100uH	
L41	1-407-500-00	MICRO INDUCTOR		4.7mH	
L1701	1-409-497-11	COIL (FILTER)			
		< FILTER >			
LPF41	1-239-845-11	FILTER, LOW PASS			
LPF42	1-239-845-11	FILTER, LOW PASS			
		< TRANSISTOR >			
Q1	8-729-201-27	TRANSISTOR 2SC2715Y			
Q2	8-729-201-27	TRANSISTOR 2SC2715Y			
Q3	8-729-201-27	TRANSISTOR 2SC2715Y			
Q4	8-729-201-27	TRANSISTOR 2SC2715Y			
Q5	8-729-216-22	TRANSISTOR MUN2111			
Q9	8-729-216-22	TRANSISTOR 2SA812-M5M6			
Q11	8-729-421-22	TRANSISTOR MUN2211			
Q12	8-729-421-22	TRANSISTOR MUN2211			
Q13	8-729-421-22	TRANSISTOR MUN2211			
Q14	8-729-421-22	TRANSISTOR MUN2211			
Q1701	8-729-424-08	TRANSISTOR MUN2111			
Q1702	8-729-027-43	TRANSISTOR RT1N141C			
Q1703	8-729-421-22	TRANSISTOR MUN2211			
		< RESISTOR >			
R1	1-249-401-11	CARBON	47	5%	1/4W F
R2	1-216-037-00	METAL CHIP	330	5%	1/10W
R3	1-216-037-00	METAL CHIP	330	5%	1/10W
R5	1-216-037-00	METAL CHIP	330	5%	1/10W
R6	1-216-081-00	METAL CHIP	22K	5%	1/10W
R7	1-216-037-00	METAL CHIP	330	5%	1/10W
R8	1-216-037-00	METAL CHIP	330	5%	1/10W
R9	1-216-081-00	METAL CHIP	22K	5%	1/10W
R10	1-216-037-00	METAL CHIP	330	5%	1/10W
R11	1-216-081-00	METAL CHIP	22K	5%	1/10W
R12	1-216-037-00	METAL CHIP	330	5%	1/10W
R13	1-216-037-00	METAL CHIP	330	5%	1/10W
R14	1-216-081-00	METAL CHIP	22K	5%	1/10W
R18	1-216-073-00	METAL CHIP	10K	5%	1/10W
R19	1-216-073-00	METAL CHIP	10K	5%	1/10W
R21	1-249-417-11	CARBON	1.0K	5%	1/4W
R22	1-249-417-11	CARBON	1.0K	5%	1/4W
R23	1-249-417-11	CARBON	1.0K	5%	1/4W
R24	1-247-807-31	CARBON	100	5%	1/4W
R25	1-249-417-11	CARBON	1.0K	5%	1/4W F
R26	1-249-437-11	CARBON	47K	5%	1/4W
R27	1-249-429-11	CARBON	10K	5%	1/4W
R28	1-249-417-11	CARBON	1.0K	5%	1/4W F
R29	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R30	1-216-186-00	METAL CHIP	330	5%	1/8W
R31	1-216-025-91	METAL CHIP	100	5%	1/10W
R32	1-249-425-11	CARBON	4.7K	5%	1/4W F
R33	1-249-425-11	CARBON	4.7K	5%	1/4W F
R34	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R35	1-216-214-00	METAL CHIP	4.7K	5%	1/8W

Ref. No.	Part No.	Description			Remarks
R36	1-216-025-91	METAL CHIP	100	5%	1/10W
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W
R38	1-216-089-91	METAL CHIP	47K	5%	1/10W
R39	1-249-429-11	CARBON	10K	5%	1/4W
R41	1-216-013-00	METAL CHIP	33	5%	1/10W
R42	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R43	1-216-037-00	METAL CHIP	330	5%	1/10W
R44	1-216-001-00	METAL CHIP	10	5%	1/10W
R45	1-247-843-11	CARBON	3.3K	5%	1/4W F
R46	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R47	1-216-097-91	METAL CHIP	100K	5%	1/10W
R48	1-249-417-11	CARBON	1.0K	5%	1/4W F
R49	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R50	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R52	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R53	1-216-061-00	METAL CHIP	3.3K	5%	1/4W
R54	1-216-073-00	METAL CHIP	10K	5%	1/10W
R55	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R57	1-216-162-00	METAL CHIP	33	5%	1/8W
R58	1-216-013-00	METAL CHIP	33	5%	1/10W
R91	1-216-295-91	METAL CHIP	0	5%	1/10W
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1701	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1702	1-216-085-00	METAL CHIP	33K	5%	1/10W
R1703	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1704	1-216-076-00	METAL CHIP	13K	5%	1/10W
R1705	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R1706	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R1707	1-216-097-91	METAL CHIP	100K	5%	1/10W
R1708	1-216-095-00	METAL CHIP	82K	5%	1/10W
R1709	1-216-089-91	METAL CHIP	47K	5%	1/10W
R1710	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1711	1-249-429-11	CARBON	10K	5%	1/4W
R1714	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1715	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1716	1-216-097-91	METAL CHIP	100K	5%	1/10W
R1717	1-216-097-91	METAL CHIP	100K	5%	1/10W
R1718	1-249-429-11	CARBON	10K	5%	1/4W
R1719	1-216-097-91	METAL CHIP	100K	5%	1/10W
R1720	1-249-434-11	CARBON	27K	5%	1/4W
R1721	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< VARIABLE RESISTOR >			
RV41	1-238-600-11	RES, ADJ, CARBON 10K			
RV42	1-238-599-11	RES, ADJ, CARBON 4.7K			
RV1701	1-238-600-11	RES, ADJ, CARBON 10K			
RV1702	1-238-599-11	RES, ADJ, CARBON 4.7K			
		< TERMINAL >			
TM1	1-537-488-11	TERMINAL BOARD (ANT) (ANTENNA)			
		< TEST PIN>			
TP1701	1-536-354-00	PIN, POST			
TP1702	1-536-354-00	PIN, POST			

Ref. No.	Part No.	Description			Remarks
		< VIBRATOR >			
X21	1-760-549-31	VIBRATOR, CRYSTAL (4.5MHz)			
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)			
X41	1-767-825-21	FILTER, CERAMIC (10.7MHz)			
X42	1-527-981-00	FILTER, CERAMIC (450kHz)			

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Ref. No.	Part No.	Description			Remarks
*	A-4303-590-A	TCB BOARD, COMPLETE (AEP, UK)			
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		< CAPACITOR >			
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C2	1-126-967-11	ELECT	47uF	20%	16V
C3	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C5	1-163-031-11	CERAMIC CHIP	0,01uF		50V
C6	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C8	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C9	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C10	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C16	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C19	1-163-249-11	CERAMIC CHIP	82PF	5%	50V
C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C22	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C23	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C24	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C26	1-126-967-11	ELECT	47uF	20%	16V
C28	1-126-967-11	ELECT	47uF	20%	16V
C29	1-162-306-11	CERAMIC	0.01uF	30%	16V
C30	1-126-961-11	ELECT	2.2uF	20%	50V
C31	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C32	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C33	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C34	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C35	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C40	1-126-967-11	ELECT	47uF	20%	16V
C41	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C42	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C43	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C44	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C45	1-163-077-00	CERAMIC CHIP	0.1uF		50V
C46	1-126-967-11	ELECT	47uF	20%	16V
C47	1-126-301-11	ELECT	1.0uF	20%	50V
C48	1-163-059-00	CERAMIC CHIP	0.01uF		50V
C49	1-126-964-11	ELECT	10uF	20%	50V
C50	1-126-960-11	ELECT	1.0uF	20%	50V
C51	1-126-959-11	ELECT	0.47uF	20%	50V
C52	1-126-960-11	ELECT	1.0uF	20%	50V
C53	1-126-964-11	ELECT	10uF	20%	50V
C54	1-104-396-11	ELECT	10uF	20%	16V
C55	1-104-396-11	ELECT	10uF	20%	16V
C56	1-104-396-11	ELECT	10uF	20%	16V
C57	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
C58	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V

TCB

Ref. No.	Part No.	Description			Remarks
C59	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C60	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C61	1-126-301-11	ELECT	1uF	20%	50V
C62	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C63	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C65	1-126-967-11	ELECT	47uF	20%	16V
C66	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C67	1-126-16211	ELECT	3.3uF	20%	50V
C68	1-163-031-11	CERAMIC	0.01uF		50V
C69	1-126-967-11	ELECT	47uF	20%	16V
C71	1-162-306-11	CERAMIC	0.01uF	30%	16V
C72	1-126-967-11	ELECT	47uF	20%	16V
C73	1-163-031-11	CERAMIC	0.01uF		50V
C74	1-163-031-11	CERAMIC	0.01uF		50V
C120	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C1751	1-164-159-21	CERAMIC	0.1uF		50V
C1752	1-126-967-11	ELECT	47uF	20%	16V
C1753	1-126-964-11	ELECT	10uF	20%	50V
C1754	1-162-291-31	CERAMIC	560PF	10%	50V
C1755	1-126-964-11	ELECT	10uF	20%	50V
C1756	1-126-961-11	ELECT	2.2uF	20%	50V
C1757	1-162-288-31	CERAMIC	330PF	10%	50V
C1758	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C1759	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C1760	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C1761	1-163-245-11	CERAMIC CHIP	56PF	5%	50V
C1762	1-163-245-11	CERAMIC CHIP	56PF	5%	50V
C1763	1-126-961-11	ELECT	2.2uF	20%	50V
		< FILTER >			
CF1	1-579-374-71	FILTER, CERAMIC			
CF2	1-760-393-11	FILTER, CERAMIC			
CF3	1-760-393-11	FILTER, CERAMIC			
		< CONNECTOR >			
* CN1	1-568-834-11	SOCKET, CONNECTOR 15P			
		< DIODE >			
D21	8-719-976-99	DIODE UDZ-TE-17-5.1B			
D41	8-719-016-74	DIODE 1SS352-TPH3			
D42	8-719-991-33	DIODE 1SS133T-77			
D1751	8-719-016-74	DIODE 1SS352-TPH3			
		< FRONT-END >			
FE1	1-693-357-11	FRONT END (4 GANG)			
FE2	1-233-514-11	ENCAPSULATED COMPONENT			
		< IC >			
IC21	8-759-288-54	IC LC72130			
IC41	8-759-495-82	IC LA1838			
IC1751	8-759-634-51	IC M5218AP			
IC1752	8-759-450-86	IC BU1922			
		< IFT >			
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)			

Ref. No.	Part No.	Description			Remarks
		< JUMPER RESISTOR >			
JR2	1-216-295-91	METAL CHIP	0	5%	1/10W
JR6	1-216-295-91	METAL CHIP	0	5%	1/10W
JR8	1-216-295-91	METAL CHIP	0	5%	1/10W
JR9	1-216-295-91	METAL CHIP	0	5%	1/10W
JR12	1-216-296-91	METAL CHIP	0	5%	1/8W
JR46	1-216-296-91	METAL CHIP	0	5%	1/8W
JR47	1-216-295-11	METAL CHIP	0	5%	1/10W
JR48	1-216-295-11	METAL CHIP	0	5%	1/10W
JR49	1-216-296-11	METAL CHIP	0	5%	1/8W
JR51	1-216-295-11	METAL CHIP	0	5%	1/10W
JR52	1-216-295-11	METAL CHIP	0	5%	1/10W
JR53	1-216-296-11	METAL CHIP	0	5%	1/8W
JR54	1-216-295-11	METAL CHIP	0	5%	1/10W
		< COIL >			
L2	1-414-142-11	MICRO INDUCTOR		1uH	
L3	1-410-521-11	MICRO INDUCTOR		100uH	
L4	1-410-515-11	INDUCTOR		33uH	
L41	1-407-500-00	MICRO INDUCTOR		4.7mH	
L1751	1-410-521-11	MICRO INDUCTOR		100uH	
		< FILTER >			
LPF41	1-239-845-11	FILTER, LOW PASS			
LPF42	1-239-845-11	FILTER, LOW PASS			
		< TRANSISTOR >			
Q1	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L			
Q2	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L			
Q3	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L			
Q4	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L			
Q5	8-729-424-08	TRANSISTOR MUN2111			
Q9	8-729-216-22	TRANSISTOR 2SA812-M5M6			
Q11	8-729-421-22	TRANSISTOR MUN2211			
Q12	8-729-421-22	TRANSISTOR MUN2211			
Q13	8-729-421-22	TRANSISTOR MUN2211			
Q14	8-729-421-22	TRANSISTOR MUN2211			
		< RESISTOR >			
R1	1-249-401-11	CARBON	47	5%	1/4W F
R2	1-216-037-00	METAL CHIP	330	5%	1/10W
R3	1-216-037-00	METAL CHIP	330	5%	1/10W
R5	1-216-037-00	METAL CHIP	330	5%	1/10W
R6	1-216-081-00	METAL CHIP	22K	5%	1/10W
R7	1-216-037-00	METAL CHIP	330	5%	1/10W
R8	1-216-037-00	METAL CHIP	330	5%	1/10W
R9	1-216-081-00	METAL CHIP	22K	5%	1/10W
R10	1-216-037-00	METAL CHIP	330	5%	1/10W
R11	1-216-081-00	METAL CHIP	22K	5%	1/10W
R12	1-216-037-00	METAL CHIP	330	5%	1/10W
R13	1-216-037-00	METAL CHIP	330	5%	1/10W
R14	1-216-081-00	METAL CHIP	22K	5%	1/10W
R18	1-216-073-00	METAL CHIP	10K	5%	1/10W
R19	1-216-073-00	METAL CHIP	10K	5%	1/10W
R21	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R22	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R23	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R24	1-216-025-91	METAL CHIP	100	5%	1/10W
R25	1-249-417-11	CARBON	1K	5%	1/4W F

Ref. No.	Part No.	Description			Remarks
R26	1-249-437-11	CARBON	47K	5%	1/4W
R27	1-249-429-11	CARBON	10K	5%	1/4W
R28	1-249-417-11	CARBON	1K	5%	1/4W F
R29	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R30	1-216-186-00	METAL CHIP	330	5%	1/8W
R31	1-216-025-91	METAL CHIP	100	5%	1/10W
R32	1-249-425-11	CARBON	4.7K	5%	1/4W F
R33	1-249-425-11	CARBON	4.7K	5%	1/4W F
R34	1-249-425-11	CARBON	4.7K	5%	1/10W
R35	1-216-214-00	METAL CHIP	4.7K	5%	1/8W
R36	1-216-025-91	METAL CHIP	100	5%	1/10W
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W
R38	1-216-089-91	METAL CHIP	47K	5%	1/10W
R39	1-249-429-11	CARBON	10K	5%	1/4W
R41	1-216-013-00	METAL CHIP	33	5%	1/10W
R42	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R43	1-216-037-00	METAL CHIP	330	5%	1/10W
R44	1-216-001-00	METAL CHIP	10	5%	1/10W
R45	1-247-843-11	CARBON	3.3K	5%	1/4W F
R46	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R47	1-216-097-91	METAL CHIP	100K	5%	1/10W
R48	1-249-417-11	CARBON	1K	5%	1/4W F
R49	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R50	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R52	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R53	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R54	1-216-073-00	METAL CHIP	10K	5%	1/10W
R55	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R57	1-216-162-00	METAL CHIP	33	5%	1/8W
R58	1-216-013-00	METAL CHIP	33	5%	1/10W
R91	1-216-295-91	METAL CHIP	0	5%	1/10W
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1751	1-247-807-31	CARBON	100	5%	1/4W
R1752	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1753	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1754	1-216-097-91	METAL CHIP	100K	5%	1/10W
R1755	1-216-097-91	METAL CHIP	100K	5%	1/10W
R1756	1-249-401-11	CARBON	47	5%	1/4W F
R1757	1-216-295-91	METAL CHIP	0	5%	1/10W
		< VARIABLE RESISTOR >			
RV41	1-238-600-11	RES, ADJ, CARBON 10K			
RV42	1-238-600-11	RES, ADJ, CARBON 10K			
		< TERMINAL >			
TM1	1-537-488-11	TERMINAL BOARD (ANT) (ANTENNA)			
		< VIBRATOR >			
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)			
X41	1-767-825-21	FILTER, CERAMIC (10.7MHz)			
X42	1-527-981-00	FILTER, CERAMIC (450KHz)			
X1751	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz)			

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Ref. No.	Part No.	Description			Remarks
	1-664-014-11	TRANS BOARD			
		************			
					(D390: US/D790: US/G5500/XB50/XB60)
*	1-668-169-11	TRANS BOARD			
		*************			
					(D390: CND/D790: CND/XB33/XB44)
	1-533-233-21	HOLDER, FUSE (EXCEPT XB33/XB44)			
	1-533-399-11	HOLDER, FUSE (XB33/XB44)			
	1-533-903-21	HOLDER, FUSE (EXCEPT XB33/XB44)			
		< CAPACITOR >			
C903	1-164-159-21	CERAMIC	0.1uF		50V
					(XB50/XB60)
		< CONNECTOR >			
* CN901	1-564-522-11	PLUG, CONNECTOR 7P			
CN902	1-564-513-11	PLUG, CONNECTOR 10P (D390:CND)			
* CN902	1-564-518-11	PLUG, CONNECTOR 3P			
					(D390: US/D790/G5500/XB33/XB44/XB50/XB60)
CN903	1-535-139-00	BASE POST 14MM (10MM PITCH) 2P			
					(XB33: E, MX/XB44: E, MX)
CN903	1-774-108-11	PIN, CONNECTOR (PC BOARD)			
					(EXCEPT XB33: E, MX/XB44: E, MX)
		< CONNECTOR >			
⚠CNP901	1-558-943-51	CORD, POWER (E, MX)			
⚠CNP901	1-575-042-21	CORD, POWER (US, CND)			
⚠CNP901	1-575-651-21	CORD, POWER (AEP, EE, AR, CIS, SAF, UK)			
⚠CNP901	1-696-845-11	CORD, POWER (AUS)			
⚠CNP901	1-769-744-91	CORD, POWER (XB50/XB60)			
		< FUSE >			
⚠F901	1-532-388-31	FUSE, TIME LAG (2A, 250V) (XB50)			
⚠F901	1-532-464-31	FUSE, TIME LAG (2.5A, 250V)			
					(XB33: E, AR, SAF, AUS/XB44: E, AR, SAF, AUS/XB60)
⚠F902	1-532-505-31	FUSE, TIME LAG (2.5A, 250V)			
					(XB33: E, AR, MX/XB44: E, AR, MX)
⚠F902	1-533-310-11	FUSE, GLASS TUBE (6.3A 125V)			
					(D390: CND/D790: CND)
⚠F902	1-533-420-11	FUSE, GLASS CYLINDRICAL(DIA.5)(5A,125V)			
					(D390: US/D790: US/G5500)
		< RESISTOR >			
⚠R901	1-219-119-81	FUSIBLE	0.1	5%	1/4W F
					(D390: CND/D790/XB33/XB44/XB60)
⚠R901	1-219-120-11	FUSIBLE	0.15	5%	1/4W F
					(D390: US/G5500/XB50)
⚠R902	1-219-119-81	FUSIBLE	0.1	5%	1/4W F
					(D390: CND/D790/XB33/XB44/XB60)
⚠R902	1-219-120-11	FUSIBLE	0.15	5%	1/4W F
					(D390: US/G5500/XB50)
⚠R903	1-219-119-81	FUSIBLE	0.1	5%	1/4W F
⚠R904	1-219-119-81	FUSIBLE	0.1	5%	1/4W F
R907	1-202-725-00	SOLID	3.3M	10%	1/2W
					(D390: US/D790: US/G5500)
R911	1-202-725-00	SOLID	3.3M	10%	1/2W
					(D390: CND/D790: CND)

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

TRANS

Ref. No.	Part No.	Description	Remarks
		< SWITCH >	
S901	1-762-753-11	SWITCH, VOLTAGE SELECTION	
		(VOLTAGE SELECTOR) (XB33: E, AR/XB44: E, AR)	

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MISCELLANEOUS
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Ref. No.	Part No.	Description	Remarks
5	1-233-544-11	ENCAPSULATED COMPONENT	
		(D390/D790/G5500)	
5	1-233-545-11	ENCAPSULATED COMPONENT (XB33/XB44)	
6	1-769-974-11	WIRE (FLAT TYPE) (13 CORE)	
		(EXCEPT XB50/XB60)	
6	1-773-006-11	WIRE (FLAT TYPE) (15 CORE) (XB50/XB60)	
7	1-698-792-11	FAN, DC (XB44)	
58	1-773-161-11	WIRE (FLAT TYPE) (21 CORE)	
59	1-769-949-11	WIRE (FLAT TYPE) (11 CORE)	
120	1-773-051-11	WIRE (FLAT TYPE) (17 CORE)	
156	1-777-868-11	WIRE (FLAT TYPE) (19 CORE)	
⚠159	1-569-008-11	ADAPTOR, CONVERSION 2P (AR)	
⚠159	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)	
⚠CNP901	1-558-943-51	CORD, POWER (E, MX)	
⚠CNP901	1-575-042-21	CORD, POWER (US, CND)	
⚠CNP901	1-575-651-21	CORD, POWER (AEP, EE, AR, CIS, SAF, UK)	
⚠CNP901	1-696-845-11	CORD, POWER (AUS)	
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK) (DECKA)	
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE) (DECK B)	
M1	X-3371-223-1	MOTOR ASSY, CAPSTAN	
M2	A-2004-410-A	MOTTOR ASSY, DC (TRIGGER)	
M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
M201	A-4660-977-A	MOTOR ASSY (TABLE)	
⚠T901	1-431-045-11	TRANSFORMER, POWER (D390: US/G5500)	
⚠T901	1-431-046-11	TRANSFORMER, POWER (D790: US)	
⚠T901	1-431-634-11	TRANSFORMER, POWER (XB50)	
⚠T901	1-431-635-11	TRANSFORMER, POWER (XB33)	
⚠T901	1-431-636-11	TRANSFORMER, POWER (XB60)	
⚠T901	1-431-637-11	TRANSFORMER, POWER (XB44)	
⚠T901	1-431-733-11	TRANSFORMER, POWER	
		(D390: CND/D790: CND)	

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ACCESSORIES & PACKING MATERIALS
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Ref. No.	Part No.	Description	Remarks
	1-475-115-11	COMMANDER, STANDARD (RM-SD70)	
		(made in Indonesia: AEP)	
	1-475-115-31	COMMANDER, STANDARD (RM-SD70)	
		(made in Malaysia: AEP)	
	1-501-374-11	ANTENNA, LOOP	
	1-501-659-41	ANTENNA (FM)(EXCEPT XB50/XB60)	
	1-501-804-11	ANTENNA (FM)(XB50/XB60)	
	1-775-512-21	CODE, SPEAKER CONNECTION	
	3-862-180-11	MANUAL, INSTRUCTION	
		(made in Malaysia: except AEP) (ENGLISH)	
	3-862-180-22	MANUAL, INSTRUCTION (Canadian) (FRENCE)	
	3-862-180-31	MANUAL, INSTRUCTION (E, AR, MX)	
		(FRENCE, SPANISH)	
	3-862-180-51	MANUAL, INSTRUCTION	
		(made in Malaysia: AEP) (GERMAN)	
	3-862-180-61	MANUAL, INSTRUCTION	
		(made in Malaysia: AEP)	
		(DUTCH, SWEDISH, ITALIAN)	
	3-862-180-71	MANUAL, INSTRUCTION	
		(made in Malaysia: AEP)	
		(FRENCE, SPANISH, PORTUGUESE)	
	3-862-180-81	MANUAL, INSTRUCTION (EE, CIS)	
		(RUSSIAN, POLISH)	
	3-862-181-11	MANUAL, INSTRUCTION	
		(made in Indonesia: AEP) (ENGLISH)	
	3-862-181-21	MANUAL, INSTRUCTION	
		(made in Indonesia: AEP)	
		(FRENCH, SPANISH, PORTUGUESE)	
	4-991-151-01	COVER, BATTERY (for RM-SD70)	

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HARDWARE LIST
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Ref. No.	Part No.	Description	Remarks
#1	7-685-646-79	SCREW +BVTP 3 × 8 TYPE2 N-S	
#2	7-685-871-01	SCREW +BVTT 3 × 6 (S)	
#3	7-685-872-09	SCREW +BVTT 3 × 8 (S)	
#4	7-685-650-79	SCREW +BVTP 3 × 16 TYPE2 N-S	
#5	7-685-862-09	SCREW +BVTT 2.6 × 6 (S)	
#6	7-685-131-19	SCREW +BTP 2.6 × 4 TYPE2 N-S	
#7	7-685-533-19	SCREW +BTP 2.6 × 6 TYPE2 N-S	
#8	7-621-775-10	SCREW +B 2.6 × 4	
#9	7-685-534-19	SCREW +BTP 2.6 × 8 TYPE2 N-S	
#10	7-623-921-01	RING, RETAINING, CAPSTAN	
#11	7-621-775-00	SCREW +B 2.6 × 3	
#12	7-621-255-15	SCREW +P 2 × 3	

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

9-922-757-11

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Home A&V Products Company

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